

WORLD'S FINEST ELECTRONIC SURPLUS

35th ANNIVERSARY



947 1982

**CATALOG WS-82
MANY NEW ITEMS
CHECK EVERY PAGE!**

ORDERING
INFORMATION
SEE PAGE 2

MINIMUM
ORDER \$5.00

100 WATT TRANSMATCH



100 WATT TRANSMATCH ASSEMBLY with Johnson 2B9-201 10 uH roller inductor, 600 pf variable capacitor, and two banks of 5 -Centralab 850 100 pf HV capacitors. Inductor has vernier dial; also Hi-trol electronics not available. paper not included. Requires 115 VAC 60 Hz. 8 1/2 x 4 1/2 x 1 1/2, 7 lbs. #SP-XM-LPS used, \$45.

A&B VARIABLE RESISTOR

ALLEN & BRADLEY VARIABLE

CARBON LOAD RESISTOR, 2.75 ohms 200 W maximum. Has divider terminal which can be placed anywhere among the 3/32" dia carbon plates to decrease resistance. 2-3/8" dia knob loosens and tightens plates. 0/a 15 1/2 x 4 1/2 x 3/8, 8 lbs sh #5905-525-1721, NEW, \$24.95



ISOLATION TRANSFORMER



DUAL PRIMARY, each 100/110/120 VAC 60 Hz; can be wired for 200/220/240 V input. Secondary 120 V 1.1 amp tapped 100 V 1 A; 8 V 2 A -0-8 V 1 A; and 16 V 1.5 A -0-16 V 1 A. Mounted on board with AC socket, fusholders for secondaries, and diagram. Xformer size: 5 1/2 x 4 1/2 x 4, 20 lbs sh. #97513, NEW \$14.95 2/\$25.

RADIO COMPASS RECEIVER



R-836/ARN-59 LF RECEIVER, compact unit covers 190 to 1750 KHz in bands 190-400, 400-840, and 840-1750 KHz. Designed to replace ARN-6 system and function as radio compass and direction finder receiver. Control box not available but can be tuned manually using MC-215 spline and/or spin knob. 142.5 KHz IF; has sub-mini tubes 2/5718, 5896, 5/5899, 3/5802, 2/6021, and 6112. Requires 24 VDC 1 amp, 110 VDC 90 ma, 125 VDC 20 ma; also 13 V 100 Hz for loop delays if used as automatic direction finder. Voltages originally supplied by DY-107 dynamotor which is not available. 4 1/2 x 4 1/2 x 10 1/2, 9 lbs. Used \$29.95 OPERATOR'S MANUAL, \$3. SCHEMATIC, \$2 w/set. MC-215 SPLINE, 6', \$1.50; SPIN KNOB, \$2. ID-637/ARN 3" dia COMPASS INDICATOR, \$8 w/set AC POWER SUPPLY w/speaker for R-836, our construction; 14 lbs sh, \$45.00

AT-382 LOOP ANTENNA for receivers in the 190-1500 KHz range such R-23/ARO-5, R-11, and R-836/ARN-59. 9" dia loop is turned manually by use of MC-215 spline and spin knob. Has RWG connection for RF. 14 1/2 x 4, 10 lbs sh wt. AT-382/L-10, unused \$12.95



BROADCAST & SHORTWAVE



R-892/URR-44 RECEIVER, covers broadcast and shortwave in bands: 0.54-1.6, 1.6-3.45, 3.45-8.6, and 8.6-18.6 Mhz. 455 KHz I.F.; has built-in 4" speaker; controls for Monitor and AF levels, Fidelity, dial lock, and 600 ohm phone jack. Type N or lug antenna connections. With tubes 6BA7 3/6BA6, 5Y3, 3/6C4, 58V0, and 2/5698. Requires 105/115/125 VAC 50-60 Hz. 18 1/2 x 16, 72 lbs sh. Used, checked, \$135.00

MATRIX PRINTER

VICTOR COMPTOMETER MODEL IP-130

MATRIX PRINTER used in point-of-sale register systems. 5 x 7 print head makes 34 - 3 mm characters per line in red or blue ink on standard 3 1/2" wide paper rolls. Has functions Line Feed, Return, and Carriage Forward. Control electronics not available. paper not included. Requires 115 VAC 60 Hz. 8 1/2 x 10 1/2, 13 lbs sh. W/schematic, NEW \$39.95



TEKTRONIX 585A



TEKTRONIX 585A OSCILLOSCOPE w/Type 82 DUAL-TRACE plug-in; features DC to 85 Mhz response, sweep delay, two time bases, and 4x10 cm display. Sweep: 50 nsec/cm to 2 sec/cm in 24 calibrated steps, variable to 5 sec/cm (Time base A); 2 usec/cm to 1 sec/cm in 15 calibrated steps (Base B). Delay continuously Variable 2 usec to 10 sec. Rise time always less than 4.5 nsec. Amplitude calibrator 0.2 mv to 100 V peak-to-peak in 18 steps; 5X magnifier. Horizontal input impedance 1 megohm shunted by 47 pf. Requires 115/230 VAC 50/60 Hz. 17 1/2 x 13 1/2 x 24, 75 lbs sh. Used-repairable \$525 Checked 585A mainframe w/reparable 82, \$595.

SCOPE FOUNDATION

OSCILLOSCOPE FOUNDATION with 2APL 2" dia CRT, shield, and socket plus four variable resistor controls on front panel and fixed resistor board behind panel. Does not have power supply; schematic not available. 7 1/2 x 3 1/2, 4 lbs sh. #10WG/205892, unused, \$19.95



HOWARD DUAL FAN



DUAL FAN RACK with two Howard 1175-08 4 1/2" dia 5-blade fans each rated 115 V 50/60 Hz 18 watts. Fans are set at an angle to direct air upward at approx 40° angle. Steel rack mounts on standard 19" wide rack and includes fan grills and 4 1/2" AC cord. 4 1/2 x 9 x 5 1/2, 8 lbs sh. #DFR-W-82, NEW, \$16.95 ea.

ZEISS 300 MM LENS

CARL ZEISS 3-TESSAR multi-element color-corrected COYT LENS; 300 mm focal length and fixed aperture of F5.6. Front lens unscrews and is usable as separate 127 mm lens; 62 mm dia. Outer metal ring 3-5/8" dia; rear barrel 3" dia x 1-5/8" L. 0/a 3-1/8" long. 3 lbs sh. #300MM-ZSL, NEW, \$16.95



PORTABLE 28' ANTENNA



AS-1882/GR ANTENNA SET p/o AN/TRD-4 0.5 to 30 Mhz direction finding system; stands 28' H assembled. Consists of 96" mast section AT-442 (2" dia), 443 -444, and 70" mast AT-445 (1" dia); MX-1168 66" loading disc array; and MT-865 wood and metal gimble base. Also four GP-2 15" stakes, three 16" guy stakes, three 32" 1/8" th steel guy wires with insulators and clamp, loading resistor, canvas bag, and canvas case. 100 lbs sh wt; motor freight only. Used, \$79.50

Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St.
Lima, Ohio 45802
419/223-2196
419/227-6573

CATALOG
INFORMATION

This IS the only
catalog we will
issue this year.

A supplement will
be sent in the Fall.

FAIR RADIO SALES CO., INC.

1016 E. EUREKA, BOX 1105, LIMA, OHIO 45802
TELEPHONE: AREA CODE 419 227-6573

SHUNT

50 mv. 15 amp
Size: 2x1 1/2
6625-810-5742
Unused \$2.50

FS-50 UA w/
mirrored
scale, zero
adj. Scale:
4-0-20.0 MAS
% HMOGLOBIN.
Mount on panel
in front or
behind. Fits 2 1/2" dia. hole.
52x62; Beede mfg., \$7.95

CALIBROCHM meters
FS-50 UA
2-3/8" square.
Used, \$4.95
#800037, 0-150
-350% GLUCOSE
scale.
#200039, 0-3% BLOOD ALCOH.
#200056, 4-24% HMOGLOBIN.

TUBE TEST

REPLACEMENT METERS f/MERCURY
tube checkers.
Bad-7-Good
scale; can be
changed.

#990 FS-1 ma 2 1/2x2 1/2 \$3.00
#390 FS-1 ma 3x3 1/2 4.00
#3958 FS-1 ma Fan
type 3 1/2x3 1/2 4.25
#1000 FS-1 ma 4x4 1/2 5.00
#2000 FS-1 ma 0-5000-25000
CM scale; 4 1/2x4 1/2 \$6.00

OB METERS
clear
plastic
w/black
scales.

Scales are not linear.
Size: 1-9/16" sq. NEW \$2 ea
#3MR/CM, FS-250 ua (100 ua
center); 1-2-3-5-cal so.
#FMR-3/CM, as above but
0-5 pwr, 1-9 S-units.
#S-FMR/CM, FS-200 ua (75
ua ctr); 1-9 "S", 1-5 pwr.

CLEAR PLASTIC
METERS, 2-3/8"
sq. fit 2-1/8"
dia. hole. B&I
mfg. Unused.
#D1145-3, 0-50
MA, FS-5 mado, \$4.95
#D1156-1, 0-50-500 MADO
scale, FS-50 mado, \$4.95
#D5630, 0-3 VDC, \$4.95

MICROMHOS DYNAMIC
MUTUAL CONDUCTANCE
USED IN I-177 TUBE
CHECKER BASIC 0-1.4
MA. HICKOK #1547A
STK# 3F1350 \$4.95

TV-2 REPLACEMENT
METER, 0-250
SCREEN VOLTS,
FS-1 MA. 2 1/2" RD.
SEALED. NEW \$5.95

DECIBELS

-10-0-64 DB 6MW 600 OHMS
2 1/2" rd. West. 2837 \$4.95

-12-0-84 DB 100 UA FS 3 1/2" RD
BLK. RUGG. WAC4586 N \$7.95

-12-0-84 DB, FS-100 ua, 3 1/2"
rd. blk. face. Unused, \$5.95

-20-0-34 DB FS-199 MUA 2 1/2"
#GAS0934 USED \$4.95

OTHER VALUES IN STOCK, WRITE
POWER SET #6 TO 0 TO-3
2 1/2" RD. FS-200 UA, WACLINE
1496/400 RUGG/SEAL U \$3.95

MULTIMETERS
by Modutec.
3 1/2", zero
adj, mirrored
scale.
Fits 2-5/8"
dia. hole.

#841974, 0-10 VDC-AC rms-UA
DC, 0-28 VAC p-p, OHMS.
FS-100 uadc, new, \$7.95
#821155, 0-100 VDC, 0-75-
150 MADO; FS-100 uadc. Not
mirrored; 3 1/2x2 1/2 Fits 2-1/8"
dia. hole. Unused, \$5.95

DUAL SCALE METER
0-1 MA MOVEMENT
TWO MECHANICALLY
SWITCHED SCALES,
0-25, 0-125. FOR
BEHIND PANEL MFG.
CAN BE ILLUMINATED
SHAFT EXTENDS 3/8" FRONT AND
REAR. 2 1/2" FACE, 2 1/2x3 1/2" OVE
ALL. UNUSED \$4.95

ROENTGENS
PER HOUR METER
50 MICROAMPERE
3 1/2" FULL SCALE
D.C. RUGGEDIZED
REMOVABLE
PLASTIC LENSE,
BLACK FACE.
TOP SCALE 0-500, LOWER 0-10
#300-10764 UNUSED \$3.95

BALLENTEINE
V.T.V.M.
METER
ONLY
AC VOLTS
1-10
DECIBELS
0-20
Weston 643
4 1/2" or Eq.
Mfg. PT. NO. 205007 New
STK#6625-557-0899 \$8.95

OUTPUT METER
FOR TS-497B AND
TS-497C SIGNAL
GENERATORS.
300-0-300 DC
MICROAMPS, 3 1/2" RD.
MARION HS3, #5705 NEW \$7.95

DC VOLTMETER 3
IN. SQ NO SCALE
COLORED SEGMENT
SIMPSON MFG. NEW
50 VDC #1913 \$6
25 VDC #1906 \$6

REPLACEMENT METERS, good
meters removed f/equipment.
TS-353/ME-9 4 1/2" rd., \$15.00
ME-26D, 4 1/2" rd., \$15.00
ME-81/UM-34, unused, \$12.
TV-7 tube test, 3 1/2" rd., \$12
RT-66-67-68 mixers 1 1/2" \$8

GENERAL ELECTRIC
0-300 VAC 25-120
Hz, high accuracy
for lab use.
Metal case 5 1/2x5 1/2
x4 1/2, 6 lbs sh.
Unused, \$19.95

RUNNING TIME

RUNNING TIME
METER, 3 1/2" rd.,
8-plate; 115
VAC 60 Hz.
#RIM-WRT-1,
Used, \$9.95

IP-GAS METER, 0-1
VDC full scale.
Mounts in 2" dia.
hole. Chrome
finish #48560-2,
\$1.50 ea.

STORE HOURS

9 A.M. to 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. TO 1 P.M. SATURDAY

TERMS

PRICES NET, F.O.B. LIMA, OHIO
SEND MONEY ORDER, CERTI-
FIED CHECK, VISA, or
MASTERCARD WITH PURCHASE
ORDER FOR IMMEDIATE SER-
VICE.

We reserve the right to hold an
order accompanied by personal
or company check until after
check clears the banks.

MINIMUM ORDER \$5.00
Orders less than \$5.00
ADD \$1.00 HANDLING CHARGE.

Include sufficient money for
shipping charges. (UNUSED)
PAYMENTS RETURNED AT
ONCE.) Otherwise we will send
shipping charges collect.

C.O.D. ORDERS, SEND 50% of
PURCHASE WITH ORDER. CASH
BALANCE will be COLLECTED
UPON DELIVERY.

When writing for information
PLEASE state what specific
information you desire.

DESCRIPTIONS

ALL MATERIAL OFFERED IN
THIS CATALOG IS IN "USED-
COMPLETE" CONDITION, UN-
LESS QUALIFIED AND/OR
NOTED AS "RECONDITIONED,"
"UNUSED," or "NEW."

MERCHANDISE IS NOT OPER-
ATIONALLY CHECKED UNLESS
SPECIFIED AS "CHECKED."
EQUIPMENT DESCRIBED AS
"REPAIRABLE"--MEANING "A-
BLE TO BE REPAIRED"--IS
ELECTRO-MECHANICALLY COM-
PLETE, BUT REQUIRES SOME
TROUBLESHOOTING BY THE
CUSTOMER.

AC VOLTMETERS

0-3vac 3"RD. SUB PANEL MTG
1000 p/v 2F8003-1 NEW \$7.

0-6 VAC, 3 1/2" rd.; various
manufacturers, used \$6.95

0-10 VAC 2 1/2" rd. \$4.95
3 1/2" rd or sq \$5.95 var.mfg.

0-30 VAC 3 1/2" rd. various
mfg. unused \$6.95 used \$7

30-150 VAC 60 Hz, various
mfg: 2 1/2" rd., used, \$6.95

0-300 VAC, 2 1/2" rd, used \$6.

0-100 VAC, 3 1/2" rd., Hickok
Model 47M, used, \$5.95

0-15 VAC, 3 1/2" rd., various
mfg., used, \$5.95

0-50 VAC, 1000A/v, 3 1/2" sq.
WESTON 301, unused, \$6.95

AC AMMETERS

0-3 AMPS AC, scale not
graduated; 3 1/2" rd., \$9.95

0-125 AC FS-5 A for 400
Hz; 3 1/2" rd. Hickok \$9.95

0-300 AC FS-5A, 3 1/2" rd
black face; used, \$8.95

CURRENT TRANSFOR-
MERS for AC amme-
ters; used.

#7150, ratio 260:
5 A 40 VA 50-
125 Hz; 1 1/2x4 1/2" dia, \$4.95

#3947, ratio 200:2.5 A 5VA
400 Hz; 1 1/2x3 1/2" dia, \$2.95

D.C. MILLIAMPS

FS-1 MADC, 0-100-500 scale
2 1/2" rd sealed, used, \$4.95

0-3 MA-DC, 3 1/2" rd. sealed.
#4081, unused, \$6.95

0-30 DCMA SCALE
2 1/2"RD. RUGG. #8274 N \$4.95

0-100DCMA 100MA. MOVE.
3 1/2"RD.RUGG. #4265 N \$6.95

0-150 DCMA SC. USED
3 1/2" RD. STD.CAY22061 \$5.95

0-200 DCMA SC. 2 1/2" RD.Used
#MR25200DCMA \$3.95

0-200 DCMA SC. 3 1/2" RD NEW
GE-CG22063 \$5.95

0-20 MA-DC, 3 1/2" rd. Various
mfg. Used, \$5.50 Unused \$7.

0-500 MADC, 2 1/2" sq. Simpson
Used, ptr. tip bent, \$4.95

0-15-300 MA-DC, FS-15 mado,
3 1/2" rd. Various mfg. \$5.95

1-0-1 MADC, 2 1/2" rd sealed;
various mfg., used, \$6.95

0-50 MADC, 3 1/2" rd., various
mfg., used, \$6.95

100-0-100 MA DC, 3 1/2" rd
Simpson; NEW, \$5.95

D.C. MICROAMPS

0-200 UADC, 3 1/2" rd. sealed;
Var. mfg. #3981, new, \$3.95

0-200 UADC and -8-0-46 DB,
2 1/2" rd. sealed, new, \$4.95

0-500 UADC, 2 1/2" rd., Var.
mfg. Used, \$4.95

500-0-500 UA-DC, 3 1/2" rd.,
various mfg., unused \$6.95

FS-20 UA DC, 0-2 ma indi-
cated; 3 1/2" rd., \$6.95

50 UA MOVEMENT, SCALE -30,
0, 150, POINTER AT ZERO, SEAL
ED, 2 1/2RD USED TRC30150 \$4

50 UA MOVE, SCALE 0-100 %
MOD/PEAK VOLTS. SEALED
2 1/2RD USED TRC10050 \$4.00

FS-50 UA DC, 0-50 ua & 250
ma scale; 3 1/2" sq. NEW \$7.

CLEAR PLASTIC
FS-100 UA METER
with non-linear
SWR and 0-20 W
scales; 2-3/8"
sq face f/2"dia
hole. #SWR-020, NEW \$4.95

FAN-SHAPED ME-
TERS, plastic w/
zero adj. 3" top
2 1/2" bottom; 3" H.
Fits 2" dia. hole.
EMI mfg. Unused.

#EMI-200UA, 0-50-
150 VDC, FS-200 ua, \$4.95

#EMI-5VDC, 0-5 VDC, \$5.95

#EMI-25VAC, 0-25-250 VAC
scale; FS-25 VAC, \$5.95

#EMI-FS-50MA, 0-500 MADC
scale; FS-50 mado, \$5.95

SMALL METERS 1 1/2"
square; sealed \$6
#20UAl0, 0-20 UA
x10; FS-200 ua
#6719, 0-20-20
scale; FS-1 mado Wacline.
#0728, 0-10, FS-50 m; blk
face, Weston 151. Unused.
#7963; 0-10 scale, FS-1 ma,
1 1/2" dia, Ideal S-100.

D.C. VOLTMETERS

0-50 VDC EDGEWISE; 2 1/2 X 1 1/2
X 1 1/2. HONEYWELL, NEW, \$8.

0-15-600 VDC, 2 1/2" rd black
face; w/mult. code-used \$6.

0-1 VDC 10KA/v, 2 1/2" rd
sealed; used, \$5.95

0-5 VDC, 3 1/2" rd.; various
mfg., used, \$6.95

0-80 VDC 3 1/2" rd; various
mfg., unused, \$6.95

0-100VDC SC. 2 1/2" RD.RUGGED
#9545 NEW \$5.95

0-750 VDC, 3 1/2" sq Simpson;
used, \$5.95

0-200 VDC, 3 1/2" rd. sealed;
various mfg. Used, \$6.95

0-300 VDC, 2 1/2" round; vari-
ous mfg. Unused \$5.95

0-500VDC SC. 3" sq.
#2311624 Used \$5.95

0-20 KV, FS-1 ma dc; 3 1/2"
rd sealed; used, \$6.95

KILOVOLTS DC, FS-1 MA:
0-1.5 KVDC 3 1/2" rd. Used \$6.
0-4 KVDC, 3 1/2" rd. Unused \$7

OTHER VALUES IN STOCK, WRITE

R.F. AMMETERS

0-5 Ant-Curr w/trans coil,
2 1/2" rd MI01/ART-13 used \$9.

0-15 RFA 3" sq. FS-1 ma;
Simpson 271, used, \$9.95

0-15 RF AMMETER, 3 1/2" rd.;
various mfg. Used, \$16.95;

4"x2 1/2" METERS
FS-100 VDC, 0-
100-500 scale;
#10CV-TV13, \$9.

FS-50 UA, 0-5-
100 sc; #50UA-TV-13, \$9.95

AC FREQUENCY

METER

48-52 and 58-
62 HZ, 100-
150 VAC, ten
reads, 3 1/2"
rd sealed; 2 lbs.
#974-9364, unused, \$27.95

DC AMMETERS

0-1.5 AMPS DC, 1 1/2" sq;
Rowan mfg., used, \$7.95

25-0-25 ADC, 3 1/2" rd Simp-
son; unused, \$8.95

0-2 ADC, 3 1/2" rd., Westing-
house NX-35, used, \$8.95

DC AMMETERS, FS-50 MV:
0-200, 2 1/2" rd, new, \$6.95
0-1500 3 1/2" rd, used, \$7.95

30-0-30 ADC AUTOMOTIVE-
style; 2 1/2" dia, NEW \$3.95

BATTERY CHARGE, FS-10 amps
red line 6 A; 2 1/2" rd, Ben-
wood-Linze mfg. Unused \$4.

0-20 DCA SCALE
50 mv 3 1/2" N \$8.

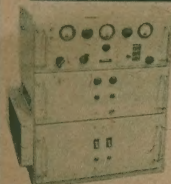
0-50 DCA scale
50 mv 3 1/2" \$10.

BIG LOOK

0-20 DCA SCALE
50 mv 3 1/2" N \$8.

0-50 DCA scale
50 mv 3 1/2" \$10.

400 W AM TRANSMITTER



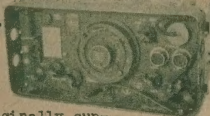
T-368/URT TRANSMITTER, 1.5 to 20 Mhz @ 450 watts CW, 400 watts AM. Uses master oscillator, frequency multiplier, intermediate power amp, and final power amp. Also 4-400A tube in the P-A, two 4-125's in the modulator, 1500 pf and 300 pf 10 KV vacuum variable capacitors in P-A. Input signal levels: 3-5 volts FSK, 30 V max external excitation. Input impedance: 56 ohms FSK, 1000 ohms external. Requires 115 VAC 50-60 Hz 1570 W (CW) or 2200 W (AM). 41x32 x51, 650 lbs net. Sh wt: 940 lbs in wood crate as received from government. Used-good condition but not checked, \$495.00. Maintenance manual, partial repro, \$15.00.

BC-939/TN-339 ANTENNA TUNER as used with T-368 or BC-610 transmitters; see page 25 for more info. Gov't reconditioned, \$100.00

R-174/GRR RECEIVER

R-174/GRR-5 RECEIVER,

1.5 to 18 Mhz AM-CW in four bands continuously tuned or ten preset channels; 455 KHz I-F and 200 KHz crystal calibrator. Requires 90 VDC and 1.5 VDC which was originally supplied by PP-308 power supply (not available). Has 8 or 600 ohm output, EFO, and tubes 3V4, 3/1R5, 3/1L4, and 1U5. As shown; no outer case. 52x12x2, 23 lbs sh. Used, \$18.95. 115 VAC SUPPLY w/speaker (our construct) \$30. 11-pin POWER/AUDIO PLUG, \$3 w/set purchase. AN/GRR-5 MANUAL for R-174, \$7.50



DOLLAR DAZE

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE through-out this catalog.

40-81 8" x 17" PLEXIGLASS SHEETS, 1/8"th Specify SMOKED, \$1.25

LOUD BUZZER-HORN as used in smoke alarms; 2" dia x 1 1/2". 6 VDC, \$1.25 ea. 12 VDC, \$1.35 ea.

RECEIVER-TRANSMITTER CHASSIS, solid-state, broadcast band. \$2.00

SENIOR ALARM; buzzes when pin pulled. 2 1/2x3 1/2, 9v. \$1 3/4. 10

23-77 BRASS COUPLINGS for 3/8" dia. x 3/4" long shafts. 3 for \$1.00

MOBILE RADIO PLATE w/switch light, jack, 6" 10-cond. cable. Plate 3 1/2x3 1/2. \$1.00

29-78 LEATHERETTE INSTRUMENT CASE, 8 1/2x2 1/4, two sections. \$1.50 2/\$2.50

MIXED HARDWARE: screws, nuts, washers removed f/equip. Usable; 3 lbs. \$1.00

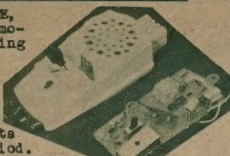
42-82 RUBBER EQUIPMENT FEET 1-1/8" dia rubber with 1 1/2" x 20 bolt; w/o nut. 8/\$2.00

LEVEL METER, FS-150 UA, 3/8x7/8 face; o/a 1 1/2x3. \$1.00 3/\$2.00

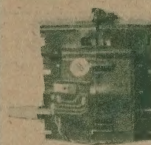
39-79 SPEAKER, 3" dia. 8, 1 watt. Sampo SP024, new, \$1.00

'SPACE TOY' MODULE

SPACE WARRIOR MODULE, electronic toy with motor speed and shooting sound effects with flashing LED's. Firing of infra-red LED is detected on aggressor module causing "hit" effects and an inactive period. Requires 9 VDC transistor battery. Solid AS-13, may have cold solder joints or other problem. 6 1/2x2 1/2x1 1/2 lbs sh. #SPW-MOD, \$3.95 each; 2 for \$6.50



CIRCUIT BOARD only from above module, AS-13; #SPW-PCB, \$2.50 each or 3 for \$6.00



ROBOT GEAR BOX

ROBOT GEAR BOX with two electrically independent 3 VDC motors which are loosely magnetic coupled. One gear has holes with 2 diodes used as optocouplers to sense rotational speed.

Has two 3/8" dia splined shafts (48 RPM @ 3 VDC). This plastic gear box could be used for light-duty robot, cart, or animation projects. O/a 7 1/4x2 1/2, 2 lbs. #WD-4955-18, \$3.50 4/\$11

EMERGENCY FLASHER

EMERGENCY LIGHT-FLASHER-CHARGER, plugs into car lighter with 14 feet of cable and provides bright clear flasher for emergencies or continuous lighting for repairs, map reading, etc. Also has provision for trickle charging battery from another vehicle using an additional 3 ft cable connected to its lighter circuit. Has meter which indicates approximate charge time required. 6 1/4x3, 4 lbs sh. #EMERG-LFC, w/cables, NEW, \$5.00



LIGHTER CABLE, 14' as above, \$2.50; 30' \$1.

PERFECTION



COMPUTER PERFECTION, four games to test memory skills: Countdown and Black Hole for one player, Brainbattle and Lighttrace for two players. Each game has three skill levels. Also has test mode and "repeat" mode which re-runs the winning sequence of a game for the next game. Has TMS1000L chip, 10 LED's, sound element, and three slide switches. Uses 2/9 VDC transistor batteries (not included). 4 1/2x4 1/2, 1 lb. Board only as shown, w/instructions, \$4.50

TIME-TEMP SIGN PCB'S

SCR/TRIAC CONTROLLER BOARD with seven each 400 V 4 A SCR's and 800 V 6 A triacs. SCR's trigger the triac gates with a 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/o time-temp sign. 6 1/2x2 1/2, 1 lb. #ASI-CMC27, w/schematic \$5.50

TRIAC CONTROLLER BOARD w/eight RCA 200 V 6 A triacs (TO-66), isolation/trigger transformer, shift register, and gates which control each triac. P/o time-temp sign. With schematic and 22-pin edge connector. 4 1/2x2 1/2, 2 lbs. #ASI-CMC107 \$5.95

LOGIC CARD p/o time-temp sign controller containing IC's 2/555, 741S00, 2/741S08, 5/741S14, 74-1S20, 6/741S32, 2/741S42, 2/741S93, 741S123, 74-1S237, 741S367, 7404, 7417, and DS8830. With schematic. 9-3/8x5 1/2, 1 lbs sh. #ASI-503/00, \$3.95

14 TO 800 KHZ RECEIVER



R1134/WR-3 LOW-FREQ-QUENCY RECEIVER, 14-600 KHz AM-CW-FS in five bands using mechanical digital tuning: 14-30 KHz (Band I), 30-63 (II), 63-133 (III), 133-283 (IV), and 283-600 KHz (V). Bands I and IV have 60 KHz 1st I-F; 200 KHz 2nd. Other bands single 200 KHz I-F. Calibrate points every 10 KHz. Output impedance: 600 ohms. Input: 50 ohms. Controls for EFO, broad-Sharp I-F and A-F selectivity, Antenna Compensator. With tubes 6AN5, 6AU6, 4/6C4, 3/5725, 5/5749, and 5761. Requires 115 VAC 50-60 Hz or 400 Hz. 8 1/2x17 1/2x16, 80 lbs sh wt. Used, checked, \$295. Manual, partial repro, \$15. Schematic \$3 w/set purchase

600 KHz (V). Bands I and IV have 60 KHz 1st I-F; 200 KHz 2nd. Other bands single 200 KHz I-F. Calibrate points every 10 KHz. Output impedance: 600 ohms. Input: 50 ohms. Controls for EFO, broad-Sharp I-F and A-F selectivity, Antenna Compensator. With tubes 6AN5, 6AU6, 4/6C4, 3/5725, 5/5749, and 5761. Requires 115 VAC 50-60 Hz or 400 Hz. 8 1/2x17 1/2x16, 80 lbs sh wt. Used, checked, \$295. Manual, partial repro, \$15. Schematic \$3 w/set purchase

HAMMARLUND SP-600

HAMMARLUND SP-600-JX RECEIVER, 0.5 to 54.0 Mhz AM, CW, MCW; 455 KHz final I-F. Selectivity from 0.2 to 13.0 KHz in six steps plus crystal phasing control on three lowest steps. Frequency selection using VFO or six preset crystal channels. Also EFO, calibrated "S" meter, and AVC. Audio output impedance: 600 ohms. SC-239 connector for antenna; includes 20 tubes. 115/230 VAC 50-60 Hz required. 10 1/2x19 1/2x16, 76 lbs sh wt. Used-repairable, \$215. Checked, \$285. Manual for SP600-JX, partial repro, \$10.00. Cabinet for SP-600; 30 lbs, used, \$32.50



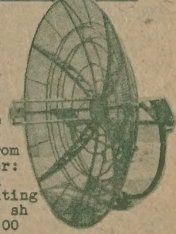
R-368/URR RECEIVER



R-368/URR RECEIVER, 0.5 to 30.5 Mhz AM-CW in thirty bands, 1 Mhz per band. Wide 8" linear scale permits precise tuning in megacycles or kilocycles. Has five step crystal selectivity points every 100 KHz. 500 KHz IF; bandwidth 0.2 to 6 KHz. Audio output: 1.5 watts into 4 or 600 ohms. 50 ohm antenna input impedance. Requires 115/230 VAC 50-60 Hz. 10 1/2x19 1/2x13, 55 lbs sh wt. Used, repairable, \$325.00. Checked, \$400. Manual, partial repro, \$10.00

8 FOOT DISH ANTENNA

AS-554/TRC 8' dia ANTENNA with aluminum mesh paraboloid surface. Designed for 1700-2400 Mhz with 30 db gain; 4.5 bandwidth. Vertical or horizontal polarization; 20 db major to minor lobe ratio. Distance from focal point to window of feedhorn: 36". Depth from surface perimeter to center: 18". Antenna is shipped in sections and includes mounting yoke and feedhorn. 600 lbs sh weight approx. Used, \$525.00



5DUFP1 FLAT-FACE CATHODE RAY TUBE CRT 5 dia. Used in some Heath oscilloscopes; looks like substitute for 5UFP1 (needs wiring change). Typical voltages: -1400 V, 6.3 V fil., +150 VDC vertical plate, +180 VDC horiz-plate. W/diagram. 14 1/2x13, 5 lb 5DUFP1, NEW \$22. 12-pin socket f/5DUFP1 \$2.50

TELEPHONE TONE PAD

STROMBERG-CARLSON TONE KEY PAD, can be used for tone control, signaling, and experiments. Each key produces two tone output; characters 0 thru 9, *, *. Requires 9-15 VDC; with hook-up info. 3-3/8x2 1/2x1 1/2, 2 lbs sh. #SC-35A3AP, NEW, \$8.95; 2 for \$16.

BC & ARC COMMAND SETS

Even though they have been on the surplus market since the end of World War II, the Command Set Receivers and Transmitters are still popular with hams and experimenters. The series consists of either SCR-274N (BC-prefix) or AN/ARC-5 receivers (R-prefix) and transmitters (T-prefix).

As a group, the receivers cover 190 KHz to 9.1 Mhz and the transmitters 2.1 to 9.1 Mhz. Over the years many conversions have been written for the sets. However, the last comprehensive collection of such information, CQ Surplus Conversion Handbook, went out-of-print in 1979.

If you are interested but not familiar with the Command Sets, your best source for info about them may be another ham. Schematics for any of the receivers and transmitters are available from us @ \$1.50 each plus a SASE.

Command receivers are superheterodyne types which may be tuned by the use of a special spin knob or from a remote position with a control box and spline shaft. Each have six tubes: 3/12SK7, 12SR7, 12A6, and 12K6. They are designed to operate from a DM-32, a 24 VDC dynamotor with an outless dynamotor. Size: 5x11x11, 15 lbs sh.

BC-453/R-23 RECEIVER, 190-550 KHz, used \$21.

Command transmitters with proper use can put out 50 watts CW and 30 watts phone. Modulation is obtained from either of two separate units, BC-456 for single tube modulation or MD-7 for push-pull. The 575-600 VDC 175-200 MA and 24 volt power requirements were originally satisfied by the 24 VDC DM-33 dynamotor which mounted on either modulator. The transmitters use a 1829 "eye" tube for tuning and crystal calibration plus tubes 2/1625 and 1626T. Size: 5x12x12, 17 lbs. sh.

BC-447/T-20, 4 - 5.3 Mhz, reconditioned \$19.95

BC-458/T-21, 5.3 - 7 Mhz, " \$19.95

BC-456 MODULATOR for use with Command Transmitters; single tube modulation with tubes 1625, 12T5, ODR. Has provision for mounting DM-33 dynamotor. 7x8x10, 11 lbs. sh. Used \$12.95

FUSH-ON TUNING KNOB f/Command Receivers, \$2.

DM-32 DYNAMOTOR, 24 VDC f/receivers, \$4.95

DM-32/12 DYNAMOTOR, 12 VDC f/receivers, \$6.

AC POWER SUPPLY f/Command Receivers w/speaker; our construction. Kit, \$32. Wired, \$40.

MC-215 FLEXIBLE SPLINE, 6", \$1.50

COMMAND SET RECEIVER & XMITTER RACKS:

FT-233/MT-7A, for one receiver, \$2.50

FT-234/MT-69, for one transmitter, \$2.75

FT-226/MT-71, for two transmitters, \$3.25

FT-227/MT-70 SHOCKMOUNT for FT-226, \$2.50

C-1254A/C-2345 CONTROL BOX for tuning ARC-receivers over 108-135 Mhz; dial changeable. W/volume control; use with MC-215. Used \$9.

R-10/ARC BROADCAST BAND RECEIVER, like R-19 listed below but 520-1500 KHz AM, \$22.95

R-19/ARC AIRCRAFT RECEIVER, 118 to 148 Mhz continuously tuneable. No dial; designed for remote tuning with spline shaft. IF-15 Mhz. With tubes 9002, 3/9005, 14A7, 2/14R7, 14F7, and 12A6. Uses accessories similar to ARC-5 Series. Requires 250 VDC 60 ma and 24 VDC. 8x11x12; 13 lbs. sh. Used, \$18.95

R-11A RECEIVER, 190-550 KHz. Similar to R-19 but has 85 KHz IF and tubes 2/14A7, 14S7, 14R7, 14F7, and 12A6. Used, \$12.95

R-27 BROADCAST BAND RECEIVER, 150-5500 KHz. Similar to R-11. Used, \$24.95

ARC-39 RECEIVER-XMITTER

RT-427/ARC-39 RECEIVER-TRANSMITTER, REPLACES COMMAND SETS; COVERS 2.0 TO 9.1 Mhz IN TWO BANDS; SIX CRYSTAL-CONTROLLED FREQUENCIES PER BAND. RF OUTPUT: 10 WATTS MIN. INTO 10 OHM LOAD (100 PF). 100% AMPLITUDE MODULATION; AUDIO OUTPUT: 200 MW WITH 1000 VU 30% MODULATED INPUT; 800 MW MAX. BANDWIDTH: 8 KHz 3 dB DOWN. METER INDICATES RELATIVE RF OUTPUT TO THE ANTENNA. WITH TUBES 0B2, 2/12AT7, 4/5749, 5750, 3/5686, 4/5814, & 3/6159. POWER REQUIRED: 28 VDC 4.4 AMPS (WITH RECTIFIER); 8.5 AMPS TRANSMITTING. SIZE: 7x10x12 1/2; SHG. WT: 42 LBS. PRICE: USED, COMPLETE, \$49.50

MANUAL FOR RT-427/ARC-39, REPRODUCTION, \$10.

225-400 MHZ CONVERTER

AM-914/TRC AMPLIFIER-CONVERTER, originally used with military R-417 receiver plug-in for the 225-400 Mhz range. Continuous tuning of RF and oscillator; 30 Mhz I.F. Unit has conversion possibilities as discussed in R. Grove's article in 10/60 issue of CQ magazine. With tubes 5670 and 4/6J4. 7x10x12 1/2, 17 lbs sh. Used, \$34.95

AM-1179/GRC, 50 to 100 Mhz, \$39.50

AM-913/GRC, 100 to 225 Mhz, \$39.95

AM-1177/GRC, 400 to 600 Mhz, \$44.50

AM-3203A/GRC, 1.35 to 1.875 Mhz, \$49.50

AM-915/GRC AMPLIFIER-MULTIPLIER, used in T-302 transmitter for 225-400 Mhz FM range. 120 watts output from two 4X150's. 12x6x14, 45 lbs. Used \$55.

AM-1180/GRC, 50 to 100 Mhz using one 4X150A tube in power amp, \$49.50

AM-912/GRC, 100 to 225 Mhz FM using one 4X150A tube in power amp, \$75.00

Oscillators for AM-3204A, \$20.00 each:

0-902A (1.3-1.525 GHz); 0-903A (1.525-1.7 GHz); 0-904A (1.7-1.875 GHz).

SCR-522 RECEIVER-TRANSMITTER

ARC CRYSTAL CONTROL, 30 WATT, 4 CHANNEL ON ANY FREQ. IN THE 100-156 MC RANGE. TUBES

TRANS. 2/832, 6SS7, 3/12A6, 6066

REC. 1/9002, 9003, 12C6, 12H6,

3/12S67, 12A6 & 2/12A7.

UNITS CAN BE RE-MODED FROM CABINETS SEPARATELY. REQUIRES POWER SUPPLY.

Size: 16x12x10 1/2, WT: 50 LBS. RC-COHO \$34.95

CONNECTOR PLUGS, \$1.50 EA. OTHER ITEMS AVAILABLE.

R-77/ARC-3 VHF RECEIVER A.M.

100-156 MC. CRYSTAL CONTROL ON 8 PRE-SET CHAN. WITH TUBES

6/6AK5, 3/12S67, 2/12SN7, 1 EA.

9001, 9002, 12A6, 12H6, 12SL7 & 12SH7. VOLTAGE REQ. 24 VDC & 210 VDC @ 210 MA.

Size: 11x7x15; WT: 21 LBS. USED \$24.50

R-5009/ARC-502 SIMILAR TO ARC-3 EXCEPT MADE FOR CANADA. (WE WILL SHIP WHAT IS AVAILABLE)

T-67/ARC-3 TRANSMITTER A.M. 100-156 MC. 8 CHAN. PRESET. CRYSTAL CONTROL. WITH TUBES 2/832, 2/6L6

3/6V6, 1/6J5 & 1/12SH7. VOLTAGE REQ. 24 VDC & 410 VDC @ 325 MA.

Size: 15x10x12 1/2; WT: 22 LBS. USED \$24.95

CONNECTOR PLUGS \$1.50 OTHER ITEMS AVAILABLE.

R-445/ARN-30 RECEIVER, 108-135 Mhz, similar to R-19/ARC in other respects, used \$19.95

GT-451/ARC TRANSVERTER, converts 228-258 Mhz to 118-148 Mhz; transmits 228-258 Mhz on 8

channel channels. Used w/R-19. Re-armed, \$16.

R-89/ARN-5A GLIDE-PATH RECEIVER, channels

332.6, 333.8, & 335.0 Mhz; 10 tubes, \$10.95

R-122/ARN-12 MARKER BEACON, 75 Mhz fixed, \$12

ANTENNA RELAY

ANTENNA RELAY UNIT for Command Sets; switches antenna from transmitter to receiver. With 2x10 antenna current meter and 5KV 50 pf vacuum capacitor. 4x3x5, 6 lbs sh. Unused. #RE-2/ARC, black finish, \$14.95 #BC-442A, aluminum, \$15.95

R-101/ARN-6 RADIO COMPASS RECEIVER, 100-1750 KC IN FOUR BANDS. WITH TUBES 6/12SK7, 4/12X7, 2/26A7, 2/2050, 1/12SY7 & 1/12SK7. POWER REQUIRED 14-28 VDC. SIZE: 11x7x15 1/2; 40 LBS PRICE: USED \$39.50

AS-313/ARN-6 LOOP ANTENNA 1D-91/ARN-6 INDICATOR 3" PD-5/ARA-19 TUNING DRIVE USED \$35.00 NEW \$12.95 AR-19/ARA-19 AMPLIFIER NEW 9.95 C-149/ARN-6 CONTROL PANEL, USED, \$9.95 MC-124 FLEX. TUNING SHAFT 20 IN. USED 1.50 MC-203 "T" ADAPTER USED 1.50 MC-136 RIGHT ANGLE ADAPTER USED 2.00

CU-308B/U ANTENNA COUPLER; USES CATHODE FOLLOWER TO COUPLE SINGLE ANTENNA WITH TWO RECEIVERS IN THE 2 TO 24 Mhz RANGE. INCLUDES THREE 24 VDC 500 OHM SPST RELAYS, 4/5906 TUBES, AND FOUR BNC CHASSIS CONNECTORS. POWER REQUIRED: 24 VDC 180-MA. 5x5x3 1/2; WT: 4 LBS. UNUSED, \$9.95

R-518 RECEIVER

R-518/FRR-27 RECEIVER, SINGLE-CHANNEL CRYSTAL-CONTROLLED RECEPTION OF AM OR TONE SIGNALS IN THE 100 TO 156 Mhz. RANGE. DOUBLE CONVERSION DESIGN WITH IF'S OF 23 Mhz AND 3 Mhz. AUDIO OUTPUT: 1.5 WATTS INTO 200-600 OHMS, 15 W PHONE. ANTENNA INPUT: 50 OHMS UNBALANCED. WITH SQUELCH AND TUBES 3/12AT7, 2/6AU6, 5654 2/6AV6, & 6005. POWER REQUIRED: 115 VAC 60-60 HZ. SIZE: 19x6x18 1/2; 45 LBS. USED, \$45.00

COLLINS 250 KHZ I.F.

250 KHz IF ASSEMBLY from Collins 618S-1 transceiver. Has 250 KHz mechanical filter with 6.7 KHz width and tubes 3/5749 and 2/5726. 4x6x3 1/2, 3 lbs sh wt. #IF250-67/618S1, used, \$12.95

250 KHz IF ASSEMBLY from RT-311/ARC-38 transceiver. Similar to above but with two mechanical filters—one 2 KHz width, the other 8.5 KHz. #IF250/ARC-38 \$24.95

250 KHz CRYSTAL OSCILLATOR from Collins 618S1. Has 250 KHz BFO oscillator coil, crystal oven with CR-46 250 KHz crystal, and 2/5749 tubes. 4x6x1 1/2, 2 lbs sh. #OSC-250/618S1, \$6.95

VHF ARC-5 EQUIPMENT

R-28/ARC-5 100 to 156 Mhz RECEIVER, crystal-controlled on four preset channels. Crystals inserted behind front access door which also conceals frequency dial and squelch adjust. Channel selection done by separate control box C-30/ARC-5. With tubes 4/717, 3/12SH7 2/12SL7, and 12A6. Requires 24 VDC for relay and selector motor, 250 VDC 60 MA HV. DM-32 may be used for HV. 14x7x14 1/2, 16 lbs. \$18.95 SCHEMATIC FOR R-28 or T-23/ARC-5, \$1.50 ea.

T-23/ARC-5 TRANSMITTER, companion to the R-28, has 10 watt output, though can be modified for higher rating. Uses two 832 and two 1625 tubes. Audio power for modulating originally supplied by MD-7 modulator (not available). Frequency channel selection made by separate C-30 control unit. Requires 24 VDC for relays and selector; 600 VDC 175 MA for HV. Size: 15x1 1/2x3 1/2; 18 lbs. sh. Gov't. reconditioned \$25. C-30/ARC-5 CONTROL BOX for above, \$3.00

ALTIMETER TRANSCEIVER



RT-7/APN-1 ALTIMETER TRANSCEIVER, 418 to 462 MHz FM; ABSOLUTE READINGS to 4000 FEET. CAN BE CONVERTED FOR OTHER USES. UNIT CONTAINS WOBULATOR, DY-AMATOR, AND TUBES 2/955, 2/9004, 3/12537, 4/125H7, 2/12H6, AND 005. POWER REQUIRED: 27 VDC 3 AMPS. SIZE: 8 1/2" x 8 1/2" x 8 1/2" SH WT: 25 LBS. UNUS. \$18.95; MANUAL, NO SCHEMATIC, \$3.00. SHOCKMOUNT ASSEMBLY FOR APN-1, \$2.00.

ID-14A/APN-1 RADIO ALTITUDE INDICATOR USED WITH RT-7. 2 1/2" DIA. METER HAS SWITCHABLE SCALES 0-400 FT. AND 400-4000 FT., ON-OFF SWITCH. FS-6 MADC. UNUS. \$3.95



SA-1/ARN-1 ALTITUDE LIMITER SWITCH USED WITH RT-7 AND ID-14A IN CONJUNCTION WITH AN AUTOPILOT SYSTEM. ALTITUDE LIMIT SET FROM 50 FT. TO 300 FT. IN 25' STEPS; X 10 MULTIPLIER FOR HIGHER ALTITUDES. DESIGNED TO SIGNAL WHEN MIN. AND MAX. LIMITS ARE EXCEEDED. 3" DIA. UNUS. \$2.95

SWR INDICATOR CIRCUIT

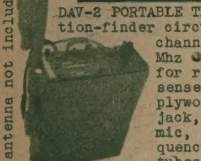


STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1 1/2" square 0-10 scale (FS-2 MA) meter with (FS-2 MA) meter with filters and rectifiers and a modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. In theory the bridge circuit is balanced when the antenna is tuned to 52 ohms resistive, resulting in a zero reading on the meter. 90-239 connector. Bridge: 2x2x1; 2 lbs. #M701/CU-991, \$6.95

PHASE AND LOAD DISCRIMINATOR, could be useful in tuning an antennas system, if used in circuit with a sensitive zero-center microammeter. Phasing and loading discriminator produces a DC voltage proportional to the reactance of a system. Phasing output shows the type of reactance (capacitive or inductive) and the loading indicates the amplitude of impedance referenced to 52 ohms resistive. In both cases zero DC output is ideal (may not be obtained in practical circuit). A third output is proportional to relative antenna current. 2x3x3; 2 lbs. sh #T201/CU-991 w/diag., \$4.95



DAV WALKIE-TALKIE



DAY-2 PORTABLE TRANSCEIVER with direction-finder circuit; operates on single channel between 2.3 and 4.5 MHz & 200 MW. Has controls for receive, transmit, and sense. Also water-tight O.D. plywood case, JK-26 phone jack, connection for T-45 mic, FT-243 crystal (no frequency choice), book, and tubes 3/334, 2/174, 1R5, and 135. Requires 67.5 VDC 3 ma, 135 VDC 19 ma, 6 VDC 30 ma, and 1.5 VDC 225 ma. Size: 10 1/2 x 3 1/2 x 10, 8 lbs sh wt. Used, \$10.95 **We will try to ship matched frequency pairs when two or more DAV's are ordered.**

ACCESSORIES which can be used with DAV-2: T-45 LIP MIC or T-30 THROAT MIC, unused, \$3. CCI-49559 HEADSET ASSEMBLY consisting of cloth helmet with headphones, unused, \$4.95 H-62 HEADSET, used, \$4.95 CW-51071 LIP MIC, used w/H-62; unused, \$3.00 CCI-66081 ANTENNA, seven section 15"-85" collapsible-telescoping, \$1.50 w/DAV purch.

MAB PORTABLE TRANSCEIVER CHASSIS3, originally designed to operate between 2.3 and 4.5 MHz on a single channel; 200 MW output. In waterproof black plastic case; mic and headset cut-off not available. W/tubes 3/334, 2/174, 1R5 and 135. Requires 67.5 VDC 3 ma, 135 VDC 19 ma, 1.5 VDC 225 ma, 6 VDC 30 ma. Size: 8 1/2 x 2 1/2 x 7 1/2; 8 lbs. sh. Unus. w/book, \$6.95

RADIO TELEPHONE LINK

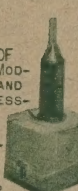


AN/TRC-47 RADIO TELEPHONE LINK, connects radio voice communications to two-line telephone systems. Consists of transmitter, receiver, and signal converter sections. Operates on a single crystal-controlled channel in the 132-150 MHz band. Carrier output: 7 watts.

Converter changes 20 Hz ringing signal into a radio transmittable 800 Hz signal and vice versa. Used in pairs, the sets can establish links up to three miles apart. With built-in speaker, tuning meter, and tubes 3/0A2, 3/0B2, 2E25, 5R4, 4/6AK5, 2/6AK6, 6A25, 6A56, 6AX5, 2/6BA6, 2/6J6, 2/6L6, 3/6X4, 4/12A7, 2/12A7, 2/12AX7, and 5763. Power required: 115/230 VAC 50-400 Hz. 21x 14 1/2 x 22 1/2; 100 lbs. sh. Used, repairable, \$55.

RADIOSONDE

AN/ANT-4A RADIOSONDE: CONSISTING OF THE T-304A TRANSMITTER & MD-147C MODULATOR. TRANS. IS A.M., 1680 MHz AND THE MODULATOR CONTAINS THE THE PRESSURE SENSITIVE ELEMENT OR ANEROID, TEMPERATURE ELE. HUMIDITY ELEMENT AND A COMUTATOR, SERVES AS A SWITCHING ARRANGEMENT FOR THE DIFFERENT SERVICES WHICH IS TRANSMITTED BY THE RADIOSONDE THAT IS TAKEN UP BY A METEOROLOGICAL BALLON. ALSO USED FOR TRACKING WIND DIRECTION. WITH TUBES 5734 AND 5875. BATT. VOLTAGE REG. 1.5, 6 & 15 VDC. WT: LESS BATT. 12 LBS. (613 GRAMS.) PRICES: MODULATOR ONLY LESS HUMIDITY AND SENSITIVE ELEMENTS \$3. TRANSMITTER ONLY \$4.95

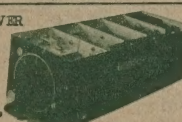


RT-380 AR RECEIVER-TRANSMITTER 2 to 18.5 MC C.W. PHONE, 100 WATT TRANS. AM CRYSTAL CONTROL ON 10 PRE SELECTED FREQ. RECEIVER 50 MW MIN. INTO 600 OHM LOAD. WITH TUBES 1813, 2/811, 1/1625, 1/6AG7, 1/6V6, 1/12BE6, 2/12A7, 2/12AL5, 2/28D7 & 4/6BA6. POWER REQUIRED 400 VDC @ 750 MA. 750 VDC @ 350 MA. AND 27 VDC FOR RELAY AC FOR FILAMENT. (SOME VOLTAGES AS ART-13) (SIMILAR TO COLLINS 1554)

Size: 15 1/2 x 7 1/2 x 23 1/2; WT: 70 LBS. LESS CRYSTALS PRICE: USED LESS DYNAMOTOR \$49.50

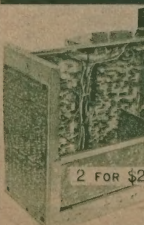
R-1/ARR-1 HOMOING RECEIVER

ADAPTER, converts 234-258 Mhz input signal to 540-830 KHz output. Input and output impedances: 50 ohms. W/tuning dial, ant. trim, and 4/954 tubes. Unit has conversion capabilities. Req 12/24 VDC 280/140 ma, 280 VDC 10 ma. 3 1/2 x 14 1/2, 6 lbs. Damaged RF capacitor, used "as-is", \$7.50



KB9-A 16 MM MOVIE CAMERA USED TO RECORD STRIKES BY THE MILITARY. HAS 35 MM, F3.5 KODAK EKTAR LENS; VARIABLE APERTURE FROM F3.5 TO F16. FILM SPEED: 32 FRAMES PER SECOND. FILM CAPACITY: 35 FT 16 MM FILM. CAN BE ACTUATED BY REMOTE CONTROL. POWER REQUIRED: 27 VDC FOR DRIVE MOTOR AND HEATER. RED AND YELLOW FILTERS INCLD. Size: 7 1/2 x 2 1/2 x 2 1/2 SHPG. WT: 5 LBS. PRICE: NEW \$34.95

CARTRIDGE COMPONENTS



FISHTANK OF ELECTRONIC COMPONENTS, P/O VIDEO TAPE SYSTEM. CONSISTS OF DEMODULATOR, SERVO-AMP, DROPOUT COMPENSATOR, PER/POST PROCESSOR DC POWER SUPPLY (115 V 60 HZ; OUTPUT -12/-12 IAMP REG, 5 VDC 1 AMP UNREG. MANY PARTS, IC's, FET, TRANSISTORS, TRANSFORMER VARIABLE RESISTORS, CAPACITOR MORE! SIZE 14 1/2 x 2 1/2 x 15 \$14.95

EQUIPMENT RACKS

STANDARD 19" RACK EQUIPMENT CABINETS

#FAA-19-76 RACK, o/a 21 1/2" x 7 1/2" x 21 1/2" for panel 19x68x20; no doors. Steel 200 lbs sh. Used, \$65.00
#EMAG-19-70 DOUBLE CABINET, o/a 42 1/2" x 70" x 22 1/2" for two 19x61x20 panels w/wheels and extended base. Steel, 300 lbs sh. \$100.
#GS-19-84 RACK, o/a 21 1/2" x 34" x 22 1/2" f/panel 19x80x20; 2-rack braces only. 225 lbs. \$60.

ENCLOSURES

STEEL CABINET with lift top for 7" Hx14" Wx8" D panel. o/a 8 1/2" x 8 1/2" x 7 1/2". #SK-CAB7148, used, \$5.95
PANEL with miscellaneous parts f/above, \$1.50
Stk # W x H x D Panel Door Lbs PRICES
1313/60 19x13x13 12 top 35 Used, \$10.
CY-1693 22x16 1/2 x 14 14 no 35 Unus. \$18.

CS-191 CABINET-GASE, 13" Wx10 1/2" x 7" D; includes panel with cut-outs and markings for URM-191 solid-state signal generator. Also top handle and 2 1/2" D cover w/hasp fasteners. Unus., \$14.95

CS-26D CASE w/top handle; p/o VTVM. Louvered sides; o/a 7" Wx 10" Hx7 1/2" D. 4 lbs. Used, \$7.95

CS-61831 CASE w/CHASSIS, 15 1/2" Wx8 1/2" x 3 1/2" D (20" D behind panel). Some cut-outs on front; may be usable for antenna tuner or transmatch project. Aluminum; 20 lbs. Used \$12.

CS-1080 CASE w/CHASSIS, p/o small scope; o/a 8" Wx7 1/2" x 15 1/2" D. Front has cut-out for 3" CRT; some parts on chassis. Handle on top; 10 lbs. Used, \$8.95

TRANSIT CASES

TS-382 TRANSIT CASE, o/a 15 1/2" x 19 1/2" x 15 1/2"; usable space without removal of spacers 10x16 1/2" x 12 1/2" Not hinged; hasp fasteners. Aluminum; 35 lbs. Used, \$14.00

CS-15L12 TRANSIT CASE, o/a 19 1/2" Wx19 1/2" Hx14 1/2" D; interior usable 18x15 1/2" plus 3 1/2" deep compartment in cover. Aluminum with side handles and hasp fasteners; 40 lbs. \$15.00

CS-15L18 CASE, o/a 23 1/2" Wx18 1/2" Hx17 1/2" D; Usable interior 19x15 1/2" x 14 1/2" plus side handles with side handles and hasp fasteners. 46 lbs sh, used, \$16.00

CY-1344 TRANSIT CASE, o/a 20 1/2" Wx18 1/2" Hx12 1/2" D; usable interior 18 1/2" x 17 x 10. Aluminum with hasp fasteners and side handles. 30 lbs \$17.

CY693/FDR-27 ALUMINUM CASE, four compartments: 3 1/2" x 7 1/4" x 1 1/4", and 13 1/2" x 5 1/2" x 1 1/4" moved for 13 1/2" x 5 1/2" deep. Hasp fasteners; may need repainting. 12 lbs. Used, \$6.00

FIBERGLASS CASE with hasp fasteners (not hinged). O/A 14 1/2" x 9 1/2" x 12 1/2" without removing spacers. 10 lbs. Used \$5.

CY-1298 SPARE TUBES CASE w/hasp fasteners. Removable insert has space for 117/7-pin and 2/9-pin mini and one "GT" tube. O/A 4 1/2" x 10 1/2" x 4, 4 lbs sh. Used, \$3.50

CY-1451 SPARES CASE, similar to CY-1298 except space for 7- and 9-pin mini tubes and two 4X4C1A tubes. Used, \$4.00

MOTOROLA MOBILE RADIO CASES, olive-drab "50-D" style; 15 1/2" WxHx17 1/2" D, 34 lbs sh wt. W/key; used, \$14. Specify: #CS-XTRC/XTRC mixer case with 18-pin connector or #CS-REC/MRC case with 28-pin connector.

CS-48 CASE, steel, 16 1/2" Wx7 1/2" Hx7 1/2" D; 5 lbs. Used \$3. 27 \$5.00

U.H.F. RECEIVER



R-48/TRC-8 RECEIVER
F.M. 200 to 250 MC.
ONE BAND VARIABLE
TUNING, VOLTAGE RE-
QUIRED 115/230 60 CYC.
WITH SPEAKER, PHONE
JACK, SQUELCH CIRCUIT
2 1/2" METER FOR CIRCUIT
CHECKING. WITH TUBES 8/6AG7,
1/6AL7, 1/6AL7, 1/6AL7, 1/6AL7.
SIZE: 20x
19x16; WT: 75 lbs. USED \$45.00

CV-89 FS CONVERTER



CV-89/URA-8 FREQUEN-
CY SHIFT CONVERTER,
audio frequency conver-
sion type with
2EP1 CRT. Shifts

10-200 Hz @ 1 KHz center frequency; 200-1000
Hz @ 2550 c-f. Maximum keying speed: 60 wpm
for single channel. Teletype output 60 ma
DC loop @ 70 V. Two AF inputs: one for narrow
one for wide shift; each 600 ohms et, 60 uH
to 60 mW input power. Requires 115 VAC 60 Hz.
5x17x21, 55 lbs sh wt. Used-reparable, \$85.
Flanges for rackmount use, \$5 additional.
Manual, partial repro, \$10. Power conn., \$5.

CV-116/URR FSK CONVERTER

for use with receivers
having final IF's from
450 to 510 KHz such as
R-280, R-388, R-390A
and SP-600. Converts
frequency-shift signals
into DC pulse that key the energizing
circuits of teleprinter; translates at 100
dot Hz/sec. Unit can be used with two receivers.
Channel A: 29.3 KHz. Input FS range 150-1000
Hz, 100 uV minimum; 50 ohm impedance. Separate
control unit required between CV-116 and
teleprinter to match output-input signals.
Requires 115 VAC 60 Hz. 8x17x18; 80 lbs sh.
Used, repairable, \$100. Manual, partial, \$10.

AMPLIFIED FIELD PHONE



TS-9 AMPLIFIED FIELD TELE-
PHONE, permits communica-
tion over greater distances
than standard battery
field phones such as EE-8,
TA-43, and TA-312. Uses
vacuum tube amplifiers for
receiving and transmitter
circuits. TS-9 can be used
between standard field
phones and effectively
double their range. Has

bell for audible signaling and indicator
light for noiseless signal. Set consists of
aluminum chassis containing GM-38B generator
ringer, amplifiers, and TS-9 handset. Pro-
vision for head and chest set use. Requires
4.5 VDC 50 ma, 1.5 VDC 200 ma, and 67.5 VDC
5.5 ma. 11x11x17 1/2, 25 lbs sh. Used, \$42.50

BANDPASS CAVITIES



FULL-LENGTH TWIN-CAVITY
BANDPASS FILTERS, 6-1/2"
length, gold-plated. Similar
to filters described in
WAFKE's article in 2/60 Ham
Radio Magazine. 8 lbs sh
wt. \$24.95 each

SHORT-LENGTH twin-cavities, \$19.95 each.
F-195/U (163-184 Mhz) F-201/U (284-314 Mhz)
F-196/U (184-205 ") F-202/U (314-344 ")
F-199/U (224-254 ") F-203/U (344-374 ")
F-200/U (254-284 ") F-204/U (374-404 ")

ALUMINUM CASE WITH RACK FOR
six of the above filters.
Case has snap fasteners and
side handles. 18xH20xH
x12x24, 35 lbs. \$25.00
CV-1344 CASE only, \$17.50
FILTER RACK only, \$12.50

Filters not
included.

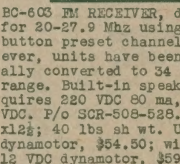
VHF RECEIVER



BC-639 RECEIVER, 100 to
156 Mhz AM continuously
tunable over a single
band. Controls for CW,
tone, AVC-Manual, RF
and Audio Gain, Attenu-
ation, and Sensitivity.
With tuning meter,
phone jacks, and tubes 3/9003, 9002, 4/6S7,
6S47, and 6X6. Power required: 210 VDC 60 MA
and 6.3 VAC 3.5 amps. Size: 10x19x10, 48
lbs sh. Used, repairable, \$30. Checked, \$60.

115 VAC 60 Hz POWER SUPPLY for BC-639; with
speaker. Our construction, \$30.00
CONNECTOR only for receiver, \$3.00
MANUAL f/BC-639, partial reproduction, \$8.50

BC-603 RECEIVER



BC-603 FM RECEIVER, designed
for 20-27.9 Mhz using ten push-
button preset channels. How-
ever, units have been intern-
ally converted to 34 to 50 Mhz
range. Built-in speaker; re-
quires 220 VDC 80 ma, 12/24
VDC. P/o SCR-508-528. 11x26 1/2
x12 1/2; 40 lbs sh wt. Used, less
dynamotor, \$54.50; with DM-34
12 VDC dynamotor, \$59.50.

BC-683 RECEIVER, same as BC-603 except 27 to
38.9 Mhz (not converted); p/o SCR-608-628.
Used, less dynamotor, \$55; w/DM-34, \$60.00
BC-604 TRANSMITTER, companion to BC-603; 70
lbs sh. Unused, less dynamotor, \$25.00
DM-35 12 VDC DYNAMOTOR for BC-604, unused \$20
FT-237 MOUNT for SCR-508-528 or -608-628; 60
lbs sh wt. Unused, \$28. 00-278 cable 8', \$4.
MANUALS for SCR-508-528 or 608-628, \$7.50 ea.

4.4 - 5.0 GHZ TRANSCEIVER



RT-252/TRC-27 MICRO-
WAVE TRANSCEIVER,
4400-5000 Mhz pulse-
position modulated,
continuously tunable.
Converts video channel
pulses into RF
for transmission and
receives RF and con-
verts it back into

video pulse. Receiver IF: 60 Mhz; 10 Mhz
bandwidth. Noise figure: 13 db. Has AGC and
APC. Transmitter uses video amplification
and plate modulation of planar triode type
RF oscillator. With tubes 2K22 Klystron,
6280 planar triode, 13/5654, 5670, 5726,
5727, 5814, 2/18A7, 2/6X4, 6AU6, 5/0A2,
5933, and 3/6AQ5. Power required: 115 VAC
400 Hz. Size: 14x23x11 1/2, 75 lbs sh.
Used, not checked, \$150. Schematic, \$5.00



I-152(*) INDICATOR; USED
WITH RC-758 ALTIMETER
FOR INDICATING HEIGHT
OVER TERRAIN IN AIRCRAFT
WITH 3DP1 CATHODE RAY
TUBE (SAME SOCKET/SHIELD
AS 3BP1 TUBE AND OTHER
TYPES) ALSO TUBES 3/
6AG5 AND 2X2. Has R.F.
CIRCUIT, POTENTIOMETERS,
115 V. 400 CYCLE POWER
SUPPLY ETC. (WILL MAKE GOOD FOUNDATION FOR
A MONITOR) SIZE: 6x6x6 1/2; WT: 9 LBS.
PRICE: USED \$8.95 SCHEMATIC \$1.00

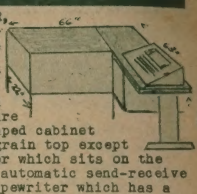
ARR-58 FM RECEIVER

R-863/ARR-58 RECEIVER, FM
162.25 to 173.5 Mhz. De-
signed to receive CONVOY
SIGNALS on 16 PRESET CHAN-
NELS. IF-30 Mhz. INPUT IM-
PEDANCE: 52 OHMS. MORE RE-
CENT VERSION OF THE R-316/
ARR-26 RECEIVER. CONVER-
SION INFO FOR R-316 TO
145-175 Mhz PLUS AUDIO, SQUELCH, and 115 VAC
60 Hz POWER MODIFICATION INFO INCLUDED. WITH
TUBES 7/6AK5, 2/6AG5, 2/6AL5, 6J6, and 5814.
POWER REQUIRED: 150 VDC 125 MA and 6.3 VAC.
SIZE: 5x8x17, 20 LBS. USED, \$19.95

AM/GRG-10 RADIO SET, includes R-125 receiver,
T-235 xmitter, DY-94 AC power supply, C-632
control, & mount; 54-70.9 Mhz FM. Used, \$200.

COMMUNICATIONS CENTER

COMMUNICATIONS CENTER,
includes ASR-33 tele-
typewriter, Tally 464
paper tape reader,
Banyanwell optical bar
code reader, logic
chassis assembly, and
power supplies. All are
contained in an L-shaped cabinet
with simulated wood-grain top except
for the teletypewriter which sits on the
desk top. System has automatic send-receive
and features a teletypewriter which has a
paper punch and
operates at 100
words/minute, 600
operations/second.
Utilizes ASCII
code with parity
bit and prints on
8 1/2" friction-fed
paper. Teletype-
writer is made by
Teletype Corp.



and is the same as their Model ASR-33 except
that the standard ASR-33 control module is
eliminated and its functions incorporated in-
to the system's logic chassis. Consoles are
removed from service, appear complete, but
are not operationally checked; with manuals,
550 lbs sh. \$450.00 or \$650.00 you pick-up.
ASR-33 TELETYPEWRITER only, as described in
the above system, 85 lbs sh., \$295.00 \$295.
(Loop and control kit allowing stand-alone
operation of this ASR-33 available from a
another source. Write for more information.)

KSR-33 TELETYPEWRITER
AND KEYBOARD, CAN BE
ADAPTED FOR VARIOUS RTTY
AND COMPUTER APPLI-
CATIONS. SPEED: 100 WORDS
PER MINUTE; 600 OPERA-
TIONS PER SECOND. HAS
THE FOLLOWING FUNCTIONS:
CARRIAGE RETURN, LINE FEED, SPACE, AND SHIFT.
UTILIZES ASC-11 CODE WITH PARITY BIT. TAKES
8 1/2" SPROCKET-FED PAPER. THIS IS A STANDARD
ITEM; PARTS ARE AVAILABLE FROM A NUMBER OF
SOURCES. POWER REQUIRED: 115 VAC 60 Hz.
SIZE: 6x12x18 1/2; SHPE. WT: 50 LBS.
USED, OPERATIONAL, BUT MAY REQUIRE SOME AD-
JUSTMENT. LESS COVER, \$55. \$150.00 \$145.



BANDPASS FILTER



F-237/GRG BANDPASS FILTER, designed to op-
erate from 54 to 70.9 Mhz using dial tuning.
Bandwidth: 250 KHz @ 3 db points or 4.5 Mhz
@ 40 db points. 50 ohm output and input im-
pedance. Unit consists of a 3-gang variable
capacitor coupled to 3 sets of three sealed
capacitors. Type C connections. F-237 has con-
version possibilities for 6- and 2-meter
amateur applications. An article about these by
W. Tucker, WAFKE, appeared in 12/60 issue of
Ham Radio. 5x11x11, 17 lbs. \$19.95

TMC - SSB CONVERTER



CV-591 SSB CON-
VERTER, same as
TMC MSR-4. Used
with 2-32 Mhz
receivers with
455 KHz IF's
such as the
R-390A and the SP-600JX. Operates upper and
lower SSB, AM, CW, FSK, and FAX. Input volt-
age: 0.1 to 10 V-rms. Input impedance: 240K
ohms. Bandspread -3 KHz. Slow/Fast AVC speeds
Output remains constant within 9 db with 40
db change in input. Output imped: 2 or 600
ohms. Requires 115/230 VAC 50-60 Hz. 5x19
x13 1/2; 28 lbs sh. Used, repairable, \$145.00
MANUAL for CV-591, partial repro. \$8.50

0.5 - 32 MHZ RECEIVER



R-390A/URR RECEIVER, covers 0.5 to 32 Mhz in 32 one Mhz bands read directly from a counter-type indicator. Mechanical filters. Triple conversion: 1st IF variable 17.5-25 Mhz; 2nd, 3-2 Mhz; 3rd, fixed 455 KHz. Receives CW, MCW, and voice; also single sideband and FSK through use of BFO. Built-in crystal calibrator every 100 KHz. Output impedance: 600 ohms. Antenna input imped: 125 ohms balanced. Rackmount, no covers. 115/230 VAC 60 Hz. Size: 10x19x16 $\frac{1}{2}$; 95 lbs. sh.

USED, REPAIRABLE, CHECKED, \$450.00
MANUAL, \$12.00

TRANSMITTER MODULATOR



MD-203/GC MODULATOR, converts a transmitter's CW signals into frequency shift signals for teletypewriter transmission when coupled to the transmitter's exciter. Designed for use with T-195/GC transmitter, the unit is usable with any transmitter with a fundamental frequency in the 1.5 to 3 Mhz range. Frequency shift: 850 Hz (1.5-3.0 Mhz), 425 Hz (3-6 Mhz), 212 Hz (6-12 Mhz), and 106 Hz (12-20 Mhz) according to ten position freq. band selector switch. 1 volt min. input necessary. With tubes 26A7, 26D6, and 5/26A6. Power required: 27 VDC 1.8 amps. 9x17x13 $\frac{1}{2}$; 25 lbs. sh. Used, \$17.50; Power plug, \$3. w/set purchase. MANUAL for MD-203, partial reproduction \$8.50

CODE PRACTICE SET



AN/GSC-1 CODE PRACTICE SET designed for student practice of Morse code, accommodating up to 10 keys. Hand keying produces either an audio tone with adjustable volume and pitch or a blinker flash. Has effective range of 40 ft. if background noise is less than 60 db. Can be operated from 6, 12, 24, or 115 VDC or 115/230 VAC. With built-in speaker, blinker, volume and pitch controls and tubes 6X5 and 2/5AK6. Keys not included. 13x18x11; 58 lbs. sh. Used, \$14.95; Gov't. record., \$24.95

SOLID-STATE AUDIO FREQUENCY

AMPLIFIER, DESIGNED FOR USE IN AIRCRAFT ON-BOARD COMMUNICATIONS. FOR TALKING OR LISTENING. HAS PEAK CLIPPING AND AGC CIRCUIT. RESPONSE: 200-6000 Hz; 150 MW OUTPUT. Uses 27 VDC. Size: 4-3/8x12x3; SH WT: 2 LBS. AM-476/AIC-10, OPEN FRAME AS PICTURED, USED, \$4.95; AM-476, SEALED/POTTED, \$2.95

R-391/URR RECEIVER, 0.5 to 32 Mhz AM and CW. Similar to R-390A except has autotune capabilities for 8 preset channels and does not have mechanical filters. 24 VDC required for autotune use; rackmt. Used, repairable, \$250.

WIRE RECORDER

IC/VRW-7 WIRE RECORDER,

unit records only--no playback. Has single input channel; 600 ohm impedance. 290 BFM recording speed; 300 to 3500 Hz frequency response. Has volume control, mic and headphone jacks on front. With two 2AD7 tubes and reel of wire for 60 minutes of recording. Requires 24 VDC for operation. 12x17x6 $\frac{1}{2}$; 17 lbs sh wt. Used, \$17.95

MX-303A/VRW WIRE RECORDER MAGAZINE with 60 minutes of recording wire, magnetizing head, other parts; 5 lbs. See page 9, used, \$9.95

TA-1/PT TELEPHONE



SOUNDPOWERED TELEPHONE SET WITH AUDIBLE AND VISUAL CALL SYSTEM. PALM OPERATED GENERATOR PUTS OUT APPROX. 100 V. THAT SOUNDS BUZZER IN OTHER PHONE AND ACTUATES VISUAL INDICATOR.

COILED CORD WITH PUSH TYPE BINDING POSTS FOR INTERCONNECTING WIRES TO BE FASTENED TO. COMES WITH FIBER CARRING CASE. SIZE: 8x3x3 $\frac{1}{2}$; WT: ACT 2LB USED \$25.00 EACH

OSCILLATOR



TRANSISTORIZED CRYSTAL OSCILLATOR AND BUFFER, 56 to 99 Mhz with 75 C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) x-tal (not incld). Has external oscillator input and tuning meter and oven output. Requires 12-18 VDC reg. for osc., 22-39 VDC 1 amp for heater. W/BNC and two submini 27 (UG-1465) connectors, power input DEC 9F connector, and schematic. 6x2x3 $\frac{1}{2}$; #OSC9928, \$10.

LS-184 SPEAKER



LS-184/AIC-10 LOUDSPEAKER with AM-492 amplifier. 5" blast-proof speaker is rated 5 watts; 5.5 V input for 1 W output 300-6000 Hz. Input impedance approx 900-ohms. Amplifier uses four 5178 tubes parallel push-pull. Transformer coupled input and output. Requires 27 VDC 150 ma and 170 VAC 30 ma. DPDT switch requires wiring. 7x8 $\frac{1}{2}$ x4-1/8, 5 lbs sh. Used, w/schematic, \$22.95

FL-30 AUDIO FILTER



1020 HZ AUDIO FILTERS, can be used to reduce interference in CW and audio signals for receivers. Each filter provides a sharp null at approx 1020 Hz in voice mode while frequencies near 1020 Hz are passed in "range" mode. Response can be broadened by placing a variable resistor from input to output. Terminal strip connections. 3-1/8x3x1 $\frac{1}{2}$, 3 lbs sh. Used, \$4.95

F-90 AUDIO FILTER, similar

to FL-30 except has sharper filter action. Designed for aircraft panel mount; has one 28 V panel light and schematic. 5x2 $\frac{1}{2}$ x3 $\frac{1}{2}$, 3 lbs sh. Used, \$3.95

MATING CONNECTOR for F-90, \$2.50



RD-60/U CODE RECORDER OF RADIO TELEGRAPH CODE SIGNALS. Uses 3/8" WIDE, 800 FOOT ROLLS OF PAPER TAPE. RECORDS CODE SPEEDS UP TO 1000 WORDS PER MINUTE WITH A RECORDING TIME OF 26 MINUTES (LOW) OR 13 MINUTES (HIGH). INPUT SIGNAL FREQ. 500 TO 5000 Hz. INPUT IMPEDANCE 500 AND 5000 OHMS. OUTPUT IMPED. 6 OHMS.

With 9 TUBES. POWER REG. 115 V. 60 Hz. SIZE 19x16x12 $\frac{1}{2}$; WT: 150 LBS.

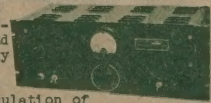
PRICES: USED LESS CABINET REPAIRABLE \$19.95

" WITH " " 24.95

GOV' RE-CONDITIONED W/CABINET 30.00

MANUAL for RD-60 recorder, \$5.00

AUDIO AMPLIFIER



AM-664 AUDIO FREQUENCY AMPLIFIER, peak-limiting unit for AM and FM broadcast. Also may be used in recording and sound systems requiring automatic regulation of program level. Input and output impedance 600 ohms-ct; gain 36 db max. Distortion less than 2% @ 400, 1K, and 5K Hz. Noise level 40 db below 6 MW. Response flat within 1 db from 100 to 5000 Hz. With tubes 2/63K7, 65Q7, 6SN7, 5Y3. Requires 115/230 VAC 50-60 Hz. 7x19x8 $\frac{1}{2}$, 32 lbs sh. Used-not checked, \$24.95

ALTEC TRANSISTOR AMP



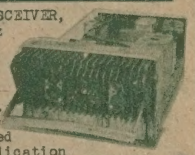
ALTEC LANSING 456B TRANSISTOR AMPLIFIER for voice communications or as part of telephone repeater system; response 200-6000 Hz. -22 db max power input; +17 db max power output. Input variable -2 db to 39 db. Simplex 100 ma max; unbalanced 5 ma. Input/output impedance 600 ohm; 24/48 VDC. 14x11x5, 2 lbs. \$4 4/\$12.

LANGUAGE LAB RECORDER



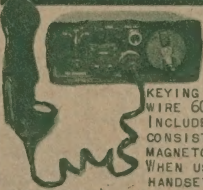
LANGUAGE LAB TAPE RECORDER, solid-state design; made by General Electronics Lab. Has three heads: one playback only master head on one track and the other two, playback and record on a second student track. Uses standard 1" audio tape on upto 7" reels at speeds 3 $\frac{1}{2}$ and 7 $\frac{1}{2}$ ips. In practice, one can monitor the master "instructor's" track while recording responses on the student track. The student track can be played back simultaneously or separately from the master track depending upon control selection. The master track, which plays in one direction only, can be recorded upon or erased by inserting plug-in wires from the student track heads. Besides its original usage, the recorder could be useful for code practice or for sound-on-sound sound audio experimentation. Audio response approx. 300-8000 Hz. Controls for student and master volume, playback-practice select, pause, and the other standard recording functions. Also three motors for very rapid fast forward/rewind, audio level meter, footcage counter, 4" built-in speaker, and four plug-in circuit cards for audio, master audio, student audio, and bias oscillator. Uses common 2N2836 and 2N3702 transistors. Tape and reels not included; microphone and schematic not available. Requires 115 VAC 60 Hz. 18x16x8 $\frac{1}{2}$; 32 lbs net, 40 lbs sh wt. Used, repairable, \$27.95; Checked, \$49.50

MOTOROLA TRANSCEIVER



MOTOROLA FM MOBILE TRANSCEIVER, transmits in 144-174 Mhz range, receives between 450-470 Mhz. #TD6050AB transmitter section has output of 25 watts min. (144-167 Mhz), 20 W min. (167-174 Mhz) using single crystal-controlled channel. Crystal multiplication 24 times; 50 ohm output impedance. Has nine tubes including 6146 in power amp. #XR21000-AH receiver has dual squelch "Private Line" or separate tone-controlled and carrier squelch circuits. Two crystal-controlled channels; 455 KHz final IF. Audio output 2 watts into 32 ohms. With 14 tubes. #XFN-6003B transistorized power supply requires 12 VDC input to supply voltages for transmitter and receiver. Crystals, control head, and other accessories not available. With schematics. 6x10x19 $\frac{1}{2}$, 28 lbs. Repairable, \$35.

FIELD PHONE-CONTROL SET



C-2172/GRC-14 FIELD REMOTE CONTROL SET; DESIGNED FOR USE WITH AN/GRC-14 RADIO GROUP IN AM, PHONE, AND CW KEYING OPERATIONS OVER A TWO-WIRE 600 OHM TELEPHONE LINE. INCLUDES 20 HZ RINGER SYSTEM CONSISTING OF A HAND-CRANK MAGNETO GENERATOR AND BELL. WHEN USED WITH A H-33/PT HANDSET, THE CONTROL UNIT IS FUNCTIONALLY A FIELD TELEPHONE. TERMINALS PROVIDED FOR PHONES, MIC, AND KEY. SWITCHES FOR SERVICE (CW, AM, AND TEL); FSK CONTROL; AND SIGNAL (BELL OR CALL LIGHT). SOLD WITH H-33/PT HANDSET. POWER REQUIRED: TWO "D" CELL AND ONE 45 VDC BATTERY (NOT AVAILABLE). SIZE: 3x9-3/8x7-1/8; SHGP. WT: 13 LBS. PRICE: UNUSED, WITH USED H-33/PT, \$24.95

Headsets Telephone Equipment Microphones Handsets



HS-33 HEADSET, 600 OHM. W/USED ANH-1 ELEMENTS AND UN-USED GREY PLASTIC HEADBAND. 4' CORD WITH PLUG. LESS CUSHIONS. \$15.00

HS-33 W/HB-7 BROWN HEADBAND (NOT U.S. MFG.) 18" CORD AND PL-354 PLG. \$14.50

HS-23 HEADSET 2000 OHM; SAME HS-33 EX-

W/GREY HB-7, \$9.25 W/BROWN HB-7, \$9.00

4" CHAMOIS CUSHIONS, \$2.25 PR. RUBBER CUSHIONS MC-162, 24", \$1.00 MX-41, 24", \$1.25

HB-7 HEADBAND ONLY GREY \$3.25 BRO. \$3.1



#ZA/CANI 638 DYNAMIC HEADPHONES, 50 OHMS IMPED; MOVING COIL-TYPE, QUALITY REPRODUCTION. ADJUSTABLE CANVAS STRAP FITS ON TOP OF HEAD; STEEL-BAND BEHIND. WITH CHAMOIS CUSHIONS, 1/4" CORD, AND PHONE PLUG. UN-USED, \$5.95

T-17 MIC, CARBON 35 TO 90 OHM PUSH-TALK; PL-68 ON 5' CORD. USED, \$6.95 RE-COND. \$9.

HS-230 HEADSET W/250 OHM ELEMENTS AS USED IN HS-30; soft 3 1/2" velour cushions, leather headband, and 18" cord w/PL-54 plug. Un-used, \$9.95

SOUND-POWERED INTRUSION MICROPHONE 225 ohms with 6" stake for pushing into ground for artillery use. T-56 USI element 1614-11 unused \$33.75

Western Electric Sound-Powered 1024 ohms D-173016 trans. D-173012 receiver new \$3.00 ea.

Carbon Elements F-1 Mic. \$1.50 Lip Mics: M-51 M-6 M419 etc. \$1.50 Telephone elements: U-1 or T-1, \$2.00

RS-38 MIC, 100 OHM CARBON. 15" COIL CORD W/ PL-68, USED, \$6. NOT U.S. MFG. \$8.

H-113/U HEADSET 600 OHM SOFT PLASTIC EAR CUSHIONS 18" CORD W/ PL-54 PLUG THAT FITS JK-26 JACK (SEE CD-307 EXTENSION CORD ELSEWHERE ON THIS PAGE) WT: 3 LBS. USED-EX \$5.95

H-62 HEADSET SAME AS H-113/U ONLY IN BLACK AND HAS PROVISIONS FOR SNAPPING ON LIP MICROPHONE CW-51071 LISTED BELOW. USED-EX. \$4.95

CW-51071 LIP MICROPHONE 100 OHMS IMPEDANCE W/ 2 SNAPS FOR FASTENING TO H-62 HEADSET, 14" CORD W/ PL-291 PLUG INTO EXTENSION CORD CD-318 LISTED ON THIS PAGE OR CW-49561 EXTENSION CORD ATTACHED. USED \$1.00

JK-38 PHONE JACK FOR IN-LINE USE, TAKES TWO PL-55 PHONE PLUGS \$1

PUSH BUTTON SWITCHES FOR HANDSETS THAT USE BUTTERFLY TYPES. DIRECT REPLACEMENT. #5930-327-7308 \$1.25

H-63/U HEADSET 600 OHM BOOM MIC 100 OHM 14" CORD WITH PLUGS. \$7.95 USED MIC. OR PHONE ELEMENTS ONLY, \$1 EA.

CARBON MICROPHONES 50 OHM F-TYPE PRESSE TO TALK NO. C-3 (LEFT) 4' CORD PL-55 PLUG UN-USED \$4.95 M-2/10A/1422 (RIGHT) 4' FT. CORD PL-68 \$3.95

CO-78 HEADSET 1/4" CORD 7' LG. RUBBER CORD NO PLUGS, TERM. \$1.50

PL-204 PLUG: SINGLE HOLDER PL-68 & PL-55 SIDE BY SIDE. \$2.00

DOUBLE PLUG D178452 F/HEADSET SIMILAR 289 298. \$3850 new \$2.50

SWITCHBOARD CORD 4 1/2' W/PL-47 #80-96 \$1.50

HS-30 HEADSET 250 OHM IMPEDANCE hearing aid type light weight headband 7 1/2" cord w/ PLUG. 6 1/2 oz. adjustable headband, 54" cord that wire into rubber cushions & phone plug. ELI-#978 new \$3.95 used \$4.75 new \$8

H-33/PT HEADSET PHONE 300 OHM, MIC 40 OHM W/ CORD UG-77 PLUG & PUSH TO TALK SWITCH. USED \$6.95

HS-16 HEADSET OR EQUIVALENT (SIMILAR TO PIC.) 2000 OHMS WITH 6" CORD & METAL TIPS. USED, EXC., \$5.75

TS-9 HEADSET WITH PUSH TO TALK SWITCH (NOT BUTTERFLY) WITH 3 COND. CORD 4' AND TERMINAL LUGS. NEW COND. \$4.95

TS-13 HEADSET, push-to-talk and cord w/PL-68 & PL-55; p/c BO-659. \$12.

OPERATOR'S TYPE PHONE & ADJUSTABLE ROOM MICROPHONE HEADSET ASSY. RUBBER-COVERED ELEMENTS; PHONE 300 OHM, MIC 40 OHM, 4 FOOT CORD. H-81, H-144, OR SIMILAR.

W/UG-77 AND SWITCH, \$10.95

CX-1422/U 1/4" CORD FOR HANDSETS. 10 FT. 10 INCHES LG. WITH PL-55 ON ONE LEG; PL-68 THE OTHER. UN-USED, \$4.50

BLACK \$5.95 MODERN TELEPHONE HANDSET W/4-COND. 15"-84" COIL CORD NEW, PEARL GRAY, \$4.95

J-37 Key with brass adjustable contacts, mounted on bakelite base 3"x6"x 3/8" with cord. Used \$7.95

TELEPHONE SWITCH KEY in metal box; lever switch 1/2-line, MO-88003 \$4.

H-60 HANSET f/TA-43-312 phones. used \$10

H-189 HANDSET f/PRO-25, VRC-12 Used \$12.

M-20 MICROPHONE WITH U-229 plug. used \$10

M-29 MICROPHONE with U-77 plug. used \$5

CHAMOIS HEADSET CUSHIONS 4" DIA. \$2.25 PR

METAL HANDSET HOLDER 2" folder, style handsets. Used \$3.

SOUND-POWERED HEAD & CHEST SET. MIC ON BREAST PLATE 20" CORD. RUGGED UNIT. NO BATTERIES NEEDED. USED \$18.00

SOUND-POWERED HEAD & CHEST SET. MIC ON BREAST PLATE 20" CORD. RUGGED UNIT. NO BATTERIES NEEDED. USED \$18.00

STARLIGHT TELEPHONES with dial but no ringer; cord has terminal lug connections. Various colors; specify 1st, 2nd, 3rd choices. 5 lbs; used, \$15.

STARLIGHT WALL PHONE, as above but for wall mount. Used, \$16.00

WALL TELEPHONES with dial and ringer; cord has terminal lug connections. Styles and manufacturers vary; no color choice. Used \$17.

WESTCLOX 202 KEY WITH ADJUSTABLE CONTACTS; COVER, COIL CORD, AND PL-55. #W-202/5854, \$3.95 EA. 3/\$10.

THIS IS THE KEY USED TO MAKE THE TWIN PADDOLE KEY DESCRIBED IN C&T ARTICLE OF FEB. 1973. THREE A-202 KEYS ARE REQUIRED, PLUS 3 BINDING POSTS AND BASE. ALSO SMALL HARDWARE & FINDINGS

MADE FROM A-202 BY R.W. MASON, URBIN 551, TURNER 11MA, OH 45804

STANDARD TELEPHONE EQUIP.

All of our standard telephone equipment is sold as "used-complete" only unless otherwise noted. Some adjustments may be required so that the equipment conforms to your local telephone company's system.

CALL COMMANDER SWITCHBOARD, NE-6340-1 or similar with plug; gray, green, or beige colors; 11-line 1-hold \$22.95 17-line 1-hold \$28.95

5-LINE 1-HOLD DESK SET phone style w/plug; black. \$20.95

2-LINE DESK SET phone w/terminal lug connections; black. \$16.95

1-LINE DESK SET w/terminal lug connections; black, blue, or green as available. \$16.00

MODERN TRIM STYLE PHONE, desk type with dial, ringer, and 6' cord with modular jack; refurbished. Colors: black, red, green, harvest gold. \$32.95

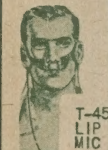
WE-302 TELEPHONES; old angular style. Straight or coil cord (no choice); black. \$9.95

TELEPHONE HANDSET W/AMPLIFIED RECEIVER, volume control; 2 lbs. #JEW-20 \$15.

STARLIGHT TELEPHONES with dial but no ringer; cord has terminal lug connections. Various colors; specify 1st, 2nd, 3rd choices. 5 lbs; used, \$15.

STARLIGHT WALL PHONE, as above but for wall mount. Used, \$16.00

WALL TELEPHONES with dial and ringer; cord has terminal lug connections. Styles and manufacturers vary; no color choice. Used \$17.



T-45 LIP MIC

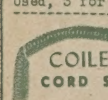
T-45 MICROPHONE CARBON TYPE 100 OHM 500B BELOW 1 MILLIVOLT, FLAT RESPONSE WITH PL-291 2 COND MALE PLUG, 11" CORD Used, \$2.50



CD-318 EXTENSION CORD WITH PL-291 2 CONTACT FEMALE PLUG TO FIT T-45 & T-30 MICS. SW-141 SWITCH & PL-68 MIC PLUG ON 7 FT. CORD USED \$2.00

PL-68 MIC PLUG 30" Used, \$1.00

JK-33 JACK TO FIT PL-68 MIC. PLUG. Used, 3 for \$1.00



COILED CORD SET

Three conductor, 24" to 72" 75¢ 12" to 36" 50¢

3-cond. in colors 18"-36"; green, red, lt. blue 50¢ Grey or pink, 3/41

Five conductor, 12" to 36" \$1.25

BRASS KEY WITH 2 BEARINGS; ADJUST. CONTACTS, COVER, CORD AND PLUG. #R11950, \$4.75

M-86/U MAGNETIC MICROPHONE: 50 OHM IMPED. PUSH SW. LEVEL CONTROL 7' CORD. UN-USED \$14.95

CD-307 CORD EXTENSION FOR CORDS WITH PL-54 PLUG AS USED ON HEADSETS, 65" LG WITH HB-26 JACK & PL-55 PLUG. Used, \$2.00

CD-604 CORD WITH IMPEDANCE MATCHING TRANSFORMER 500 OHM TO 4000, USED WITH HS-30 HEADSET 6" CORD & PL-54 PLUG. Un-used \$1.50 Used 60¢

CD-605 CORD SAME AS CD-604 ONLY 30" LG. WITH PL-55 PLG UN-USED, \$2.00

PL-55 PHONE PLUG 30" CORD \$1.00

JK-34 PHONE JACK TO FIT PL-55 PLUG Used, 3 for \$1.

MC-385 HIGH TO LOW ADAPTER IMPEDANCE FOR HEADSET 4000-600 OHM Un-used, \$1.50



T-30 THROAT MIC.

T-30 MICROPHONE CARBON TYPE, 75 OHM 500B BELOW 1 MILLIVOLT, FLAT RESPONSE WITH PL-291 2 COND MALE PLUG, 11" CORD PRICE: NEW \$3.00

PL-55 RECEPTACLE WITH PL-55 PLUG ON END 3 FT. CORD #R16-634820, unused \$2.

AN/GSA-6 CHEST SET GROUP for use with H-63 Headset & Boom mic. SA-142 Switchbox & CX-1070B cord w/plug. \$5 each.

HB-1 HEAD-BAND \$1.50

for 1-3/4" elements

STANDARD TELEPHONE HANDSET AND CORD, BLACK, USED, \$4. NEWER STYLE NEW, \$5.95

STANDARD TELEPHONE DIAL USED \$2.00

GENERAL TIMERS
 TM-506 to repeat cycle used 6.95
 TM-229 same as above, no face plate, knob or dial. For 10 seconds oper. max. U \$5.

TIMER BONANZA
 CARTRIDGE TIMER CONTROL, 115 VAC 60 Hz motor w/SPDT contacts; upto 8 hr relay. Also 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT & 4PDT center-off slide switches, transistors, rectifiers. \$1.95

STOVE TIMER
 CLOCK MECHANISM w/start-stop control dials. Gray face 5x4; style may vary. 115 VAC 60 Hz w/switch rated 230 VAC 30 amps. Knobs not original, but usable. 2 lbs; #Q155760, \$3.50

CANVAS
 BAGS, STRAPS AND COVERS, MAY BE USED OR UNUSED. ALL ARE CLEAN WITHOUT TEARS. SHOULDER STRAPS ARE ADJUSTABLE AND MADE OF COTTON WEBBING.

OW-TRB ROLL BAG for tools, etc.; folds to 17"x24"x7". Used, \$5.00

BG-175 BAG similar to above, 9"wx 9"x7"x4". used, no tears \$3

BG-1942 BAG, AS ABOVE WITH STRAP CLOSURE COVER AND 8"wx 8"wx24" D. \$2.50

BG-189 WALST BAG, 10"wx5"wx 3"D w/24" belt loops & cover w/snaps \$2.50 ea. 2 for \$4

CS-76 BAG, LIKE CW-189 BUT DUZ COVER CLOSURE. 7"wx10"wx8"D. \$2.75

ST-19 CARRYING STRAP, 65" LG. X 2 1/2" W/2" SWIVEL-EYE SNAP HOOK AND TONGUELESS-BAR BUCKLE NEAR ONE END TO ADJUST LENGTH. \$3.00

ST-42 CARRYING STRAP, AS ABOVE, NO SWIVEL, \$2.50

ST-54 CARRYING HARNESS AS USED WITH BG-1000 TRANSCIEVER; 38" EXTENDED LENGTH, 14" WIDTH. ADJUSTABLE STRAPS AND SNAP HOOK, \$3.

ST-120 HARNESS FOR PRC-8-9 -10 RADIO SETS. SIMILAR TO ABOVE, SAME USE, \$5.00

CW-216 CARRYING BAG F/PRC ANTENNA AND H-33 HANDSET; COMPARTMENTS FOR EACH. O/A 19" LONG WITH TOP 5" WIDE TAPERING TO 3" WIDE AT BOTTOM, 3 1/2" DEEP. W/SNAP COVERS AND HANGER FOR AMMO BELT, \$6.00

CW-206 ROLL BAG FOR MS-116 SERIES BEST SECTIONS. COMPARTMENTS FOR GRC-SERIES SET ACCESSORIES. SNAP AND WEB STRAP CLOSURE. O/A 40" LONG, 3"wx5"D. \$5.00

MOTOR DRIVEN RELAY SPST
 norm. open 115 v. 60 Hz. 10 amps. cont. motor 115v 60 Hz. non. sync. 3.8 w. 4/5 rpm. Cams can be set to set to make cont 30 to 60 seconds. Also has provision to bring out a shaft. size 2 1/2x4x2, 1 lb. #N17R-68292 unused \$6.00

TIME-O-MATIC SIGN CONTROL, 115 VAC 60 Hz. THREE CONTACTS RATED 15 AMP EACH. TWO ALTERNATELY MAKE AND BREAK ONCE PER SECOND FOR 15 SEC; OTHER BREAKS FOR 20 SEC. AT THE SAME TIME. THEN ALL THREE MAKE AND THE CLOCK REPEATS. SIZE: 3x5x6; SHG. WT: 5 LBS. #53 K-155, \$4.95

KEY SELECTOR CONSISTS OF MANUAL CLOCK MECHANISM FOR SENDING 17 IMPULSES, CAN BE SET TO CALL ANYONE AT 78 STATIONS, SPST LEVER SWITCH 2x2x4 1/2. 4C5100.60A \$1.50

SYNCHRON CLOCK MECHANISM, No.610 110 v. 60 cycle. 3 WATT 1 RPM #EC-129RB, WITH GEAR ASSY. NO RESET OR COVER. 2x2x2 1/2. 4oz. \$1.35

SYNCHRONOUS MOTOR, 26 volt 60 cycle, 60 rpm shaft 1x 1/16, motor 1 1/2x2 1/2. #1147 \$2

HANSEN SYNCHRON CLOCK MOTOR 110 VOLT-60 CYCLE 10 R.P.H. MODIFIED WITH SLEEVE OVER SHAFT TO 24 R.P.H. #A12-RC-12-62 \$1.50

GRAMER TIMER SWITCH ASSY. Model TO-60SEC, 230 v 60 CYC, SWITCH 5 AMP. CONT. 3.8 w. 4/5 RPM MOTOR. \$1.95

THERMAL SWITCH opens 30 sec. after cooling. Operate 130 vac. 2m ohm res. 1 1/2x1, 20" leads. M-4199 \$1.50

SA-235/A-57 CONTROL UNIT: Has a small gyro connected to a contact arm that moves across resistance contact which will give four voltage readings in right or left positions. Also has 2PDT 24v. relay switches etc. 10x5x5; 4lbs. \$6.95

CONTROL FLIGHT RATE GYRO. 115 volt 400 Hz. Gyro size 2 1/2x2 1/2x2 1/2, case size 3x3x3 1/2. wt: 3lbs. #J67005 A-7 \$5

AS-207/ORT-3 ASSY w/300' #16 strand braided cadmium alloy copper wire on RL-48 reel and crank; mounted on aluminum door w/adjustable brake and snap swivel. Part of ORT-3 xmitter antenna which attached to kite or balloon. 2x4 1/2 dia, 3 lbs. Used \$9.95

No door-damaged reels, 6.95 Wire only, \$4.95

TIMER SPRING WOUND TYPE closed when unit is wound, opens at the end of time. 30 minute 115 volt 20 amp. Lux#2500 \$3.95 60 minute 120/240 vac 15 amp. Rhodes 65b \$4.50

RELAY CONTROL UNIT WITH 4/24 VDC REED AND 3/24 V. P&B 4PDT RELAYS. AL-30 1500 MFD 100 VDC AND 3000 MFD 25 VDC CAPACITORS; 6' 11-CONDUCTOR CABLE; AND SOLA TRANSFORMER WITH 24 V. AND 75 VDC OUTPUTS. NICE CASE: 6x5x10 (TOP), 3x5x10 (BASE); 15 LB. #RCU1, \$9.95

RECORDING TAPE
 MAGNETIC TAPE FOR MOST AUDIO RECORDERS, 10 1/2" REEL; 1 1/2" WIDTH APPROX. 3600 FT LEADING MANUFACTURERS. WT: 2 LB AST3045 \$1.50 4 FOR \$5

WIRE RECORDER MAGAZINE for one hour w/wire on spool magnetizing head, timers switches etc. For use with Wire Recorder IC/VRW-7 on page #MMA-303 5lbs \$9.95

HEATING ELEMENTS
 ROUND HEATING ELEMENT, 6" OUTER DIA., 3/8" INNER DIA. 3/4" THICK. 118 VAC 500 WATT. TERN TERMINALS. #HSW-6, \$3. CHROMALOX, CARTRIDGE-TYPE C-414; 115 VAC 180 WATT. 2x4 1/2; 9" LEADS, \$1.50

LOOP COIL TYPE, 9" LONG; 115 VAC 30 w. #83975, \$2.00

DOUBLE "U" LOOP COIL, 3" HIGH. 115 VAC 1000 WATT. CHROMALOX #2111-2, \$2.50

LONG DURATION TIMER WITH 115V RESET RELAY. 115V 60 Hz 1/16 RPM MOTOR. CAN ACTUATES SPDT MICRO SWITCH. 3x2x2 1/2. UNUSED \$2.95

ILLUMINATED CLOCK MECHANISM AS USED ON CLOCK RADIOS. CLEAR PLASTIC FRONT TO TRANSMIT LIGHT, NO HANDS. HAS 60 MIN TIMER ALSO HAS ON-OFF-AUTO ALARM 2"sq FACE. 115v 60 Hz. SH WT 2 LB. UNUSED \$1.50

GEARS
 Gear box w/two pr beveled 45 gears and 20 other gears 1/2" to 1 1/2" dia on bronze bearings 4x7x4 1/2, 5 lbs #TUN/ARC45 \$5

AIRCRAFT COCKPIT EXTENSION LAMP #B-7; uses standard 2-con tact auto bulb w/5' spring retractable cord, dimmer, & ON-OFF sw. Used, \$5.95 Plastic; 2 lbs

30 RPM MOTOR
 30 RPM GEARHEAD MOTOR, 24 VDC; Size: 2 1/2x1-3/8. Shaft: 3/8" x 1/8" dia. Hayden #K43121-P8. NEW, \$6.95

60 RPM MOTOR
 60 RPM GEARHEAD MOTOR, 24 VDC; Size: 2 1/2x1-3/8. Shaft: 3/8" x 1/8" dia. Hayden #K43121-P8. NEW, \$6.95

1-81 & 1-82 ARMATURES ONLY #3H2716/A1, UNUSED, \$3.95 1-82 GLASS ONLY, \$2.00

MN-40 INDICATOR
 0-360 DEGREE SCALE SIMILAR TO ABOVE EXCEPT THAT IT IS OPERATED MECHANICALLY BY USE OF A SPLICED FLEXIBLE SHAFT OR SPIN KNOB OR BOTH. MN-40 INDICATOR 5" \$2.50 MC-124 SHAFT 20" \$1.50 MC-137 SPIN KNOB \$1.00

AUTOSYNS THAT CAN BE USED TO MAKE WIND DIRECTION AND SPEED SYSTEMS. #K101300 selayn, \$4.00 AT-201 or equivalent used \$4.00 AY-1 Autosyn now \$5.95 See page 17 for more info.

SPERTI VACUUM SWITCH SIMILAR ONE IN ART-13 XMITTER KEYING RELAY. GLASS, SPDT. #3340-5345, \$3.00

PUSH SWITCH ASSY, 9 SWITCH SP PUSH OFF, 8/PST CANCELING TYPE WITH ONLY ONE IN USE AT A TIME; W/BUTTONS, 5x2x2 1/2. #229903A, \$3.95

INTERLOCK SWITCH, HEAVY-DUTY 3" COPPER STRIP CONTACTS OPEN WHEN DOOR IS OPENED. PLUNGER 1-1/8". 2x1 1/2x2 1/2. ONE-LITE #231 \$2

BC-610 XMITTER INTERLOCK SWITCH, 2x2x1. GE#7760014-2, \$2.00

VARIOMETER FROM ART-13 200-600 KHz and 2-15 MHz transmitter. 2 1/2" dia rotor; 3" dia stator. O/a 4 1/2x5 1/2, 3 lbs. #L112/ART13, \$5.95

ID-68/APA-44 AIR SPEED INDICATOR; CONTAINS A KOLLMAN TRUE AIR SPEED METER AND A INDICATING WITH A RANGE OF 84 TO 434 KNOTS. HAS OSTER MOTOR AV-240, RELAY, 1/6AK5 TUBE, COMPENSATING DEVICE PLUS MANY OTHER COMPONENTS. 15x7 1/2x5; 20 LBS. USED \$15.

RT-58/ARC-12 CHANNEL SELECTOR AND MOTOR ASSY. 10 POSITION AUTOTUNE MOTOR DRIVEN 26.5 VDC WITH 2 SHAFTS 75 60 RPM ALSO RELAYS. 4 1/2x6x3 1/2. 5 LB. #5960-1 \$2.95

M30 INSTRUMENT LIGHT, plugs into M4AL & M5AL periscopes. Rheostat control, 25" cord, and uses 2 "B" batteries. 6 1/2x1 1/2, 2 lbs. Unused, \$4.

WIND SPEED INDICATOR using a 24 VDC PM motor (p.17) as a generator, a 200 micro-ammeter, and a resistor range scaler so that wind speed may be monitored indoors. We'll supply the PM motor and a 3 1/2" rd. O-200 scale (FS=200 ua) meter; you design the rest. #WS-MOTOR & METER, \$7.95

AY-1 AUTOSYN MOTOR AS USED IN I-81, I-82 ETC. DIRECT REPR. ACCENT. \$5.95

ID-65/ARN 5" dia RADIO COMPASS INDICATOR, 0-360 degree scale. 1" increments W/AT-54 auto-syn; use in project. 4 lbs. Used \$20.

MN-42C RADIO COMPASS INDICATOR 5" with dual azimuth dials two AY-1 auto syn. Used in aircraft that had two separate antenna loop systems. Used, \$23.

I-91(*) RADIO COMPASS INDICATOR 3" 360 deg. scale. used w/ARN-5 sys. 3"x3" (can be used with wind direction system) used \$9.95 NEW \$14.95

3" DIA 0-360 INDICATORS, usable for QST antenna position project. I-81, 5 marks, used \$8.95 ID-637/ARN, 2 marks and VAR knob, unused, \$10.95

I-101 CROSS POINT INDICATOR, 3" dia for glide path. Good movements/ Bad glass.

WIND SPEED
 1 2 3 1 2 3 R S R S 12v 60Hz

WIND DIRECTION INDICATOR using the #K101300 selayn listed on page 17. Design your own wind vane and indicator so that you can check wind direction from inside your house. #K101300 selayn, used \$4.

DC PM MOTOR
 R M R M

WIND SPEED INDICATOR using a 24 VDC PM motor (p.17) as a generator, a 200 micro-ammeter, and a resistor range scaler so that wind speed may be monitored indoors. We'll supply the PM motor and a 3 1/2" rd. O-200 scale (FS=200 ua) meter; you design the rest. #WS-MOTOR & METER, \$7.95

AY-1 AUTOSYN MOTOR AS USED IN I-81, I-82 ETC. DIRECT REPR. ACCENT. \$5.95

1-81 & 1-82 ARMATURES ONLY #3H2716/A1, UNUSED, \$3.95 1-82 GLASS ONLY, \$2.00

MODULAR POWER SUPPLIES



LAMBDA MODULAR POWER SUPPLIES, RUGGED SOLID-STATE. REGULATED 0.03%. REMOVED FROM EQUIPMENT BUT IN EXCELLENT CONDITION. RATINGS ARE BASED ON A 60 HZ VAC INPUT; OUTPUT V-5% AND AMPS @ 40% CENTIGRADE.

LMCU-20 105-132 20 V 5.0 amps 45.00
LMCU-20V 205-265 20 V 5.0 amps 40.00
LMD-20 105-132 20 V 7.4 amps 50.00
LMD-20V 205-265 20 V 7.4 amps 55.00
Package size types (B) 3x5x9, (C) 5x5x9, and (D) 5x7x9. Approx sh wt: 18 lbs.

NORTH ELECTRIC MODULAR POWER SUPPLIES, 105-132 VAC 50-60 Hz input; ratings 40 C.
#N14005A 5 VDC 13 amps \$50.00
#N61005A 5 VDC 28 amps 75.00
#N11006A 6 VDC 3.5 amps 22.00
#N15101A 10 VDC 16.5 amps 75.00
#N14003A 3.7 VDC 14 amps 28.00

HACKMOUNT MODULAR POWER SUPPLIES, Lambda (L) or North Electric (N) mfg. Ratings @ 40 C.
#LAF-A-5 5 VDC 31.5 amps \$80.00
#LAF-A-20 20 VDC 16 amps 85.00
#L-G5-OVMYK 5 VDC 75 A metered 145.00
#N8024A 24 VDC 33 amps \$145.00
#N17005A 5 VDC 49 amps 85.00
#N18005A 5 VDC 82 amps 110.00
#N18005A-M as above with meters 125.00
#N19005A 5 VDC 120 amps 130.00

CON-AVIONICS/NJE HS SERIES, 19-21 VDC 15.5 amps from 220 VAC 50-60 Hz input, \$75.00

CON-AVIONICS HS SERIES DUAL POWER SUPPLY, 17-19 VDC 16 A and 11 VDC 225 mA. Used \$60.

DRESSER-BARNES with remote sensing:
#26859 210-250 VAC in, 20 VDC 3 A out \$25.
#26858 210-250 VAC in, 20 VDC 9 A out 45.

NORTH ELECTRIC #PEC275A, 115/230 VAC 60 Hz input, output 6 VDC 500 mA, -6 VDC 500 mA, -12 VDC 1.6 amp, -28 VDC 4 amps, \$24.00



J-95/CRD-2 POWER CONTROL BOX for controlling and monitoring 115 or 230 VAC power circuits up to 500 watts. Consists of autotransformer, 10 amp voltage control from 96 to 137 VAC and 240 VAC. Also features 2 1/2" round 11-read 50-65 Hz line frequency meter, 3 1/2" round 0 to 150 VAC meter, 5 and 10 amp circuit breakers, and over-load relays. 14x14x13, 72 lbs sh. Used \$48.

TRANSISTORIZED



TRANSISTORIZED-REGULATED P.S. INPUT: 105-125 VAC 50/60 HZ. MOUNTED ON CIRCUIT BOARD, 4x5, WT: 3 LBS. UNUSED, #CD12N.85 12 VDC .85 A \$18.

THUNDER POWER SUPPLY, trans. reg. 3.7 VDC 750 MA/7 115 VAC 60 Hz in; W/inlet to modify to 5-10 V 500 mA approx. 3x3x3, 5 lbs. NEW, \$12.



TRANSFORMER & DIODE ASSEMBLY with Signal 24-4 transformer which has two 12 V 4 amp secondaries. Also two 200 V 40 A diodes, two 300 V 25 A SCR's, and a P&B 120 V 50-60 Hz DEDT relay W/10 A contacts. W/schematic. 10x3x2 1/2, 6 lbs. #AST-M912VPS, \$12.95

DC TO AC CONVERTER

FU-143C/U ROTARY CONVERTER, rotating armature unit changes 24 VDC 27 amp input to 115 VAC 60 Hz single @ 500 VA output. Metal control box on top of 3600 RPM inverter contains 0-150 VAC variable transformer, 0-150 VAC 2 1/2" round meter, AC receptacle, and DC input terminals. Size: 14x18x14, 77 lbs sh wt. Used, \$99.50

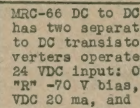


MOBILE SUPPLY

ATA-126 VIBRATOR POWER SUPPLY, operates from 6, 12, or 24 VDC depending on vibrator used. Output: 300 V. 100 MADC. Includes 6 VDC vibrator. 7x7x7 1/2, 12 lbs. Unused, \$5.



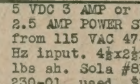
FP-68 VIBRATOR POWER SUPPLY, provides 100 to 110 VAC 60 Hz 15 or 50 watt output from 6 VDC 6/13 amps (15W/50W) or 12 VDC 3/6.5 amps (15W/50W). With 6" battery cable. 9x11x8 1/2, 34 lbs. Checked, \$22.95



MRC-66 DC TO DC SUPPLY has two separate DC to DC transistor inverters operated by 24 VDC input; Output "R" -70 V bias, +100 VDC 20 mA, and +200 VDC 100 mA. Output "A" +800 VDC 150 mA 70 VDC (isolated +, -) 75 mA, and 6 VAC 5 amps. Inverters in separate boxes which can be removed and used independently. Also has 24 VDC control relays, Reg-01m regulator for 6 VAC, locking cabinet with cover & key, plug, and schematic. 9x16x16, 21 lbs. \$39.50



24 VDC 5.4 AMP POWER SUPPLY, input 105-125 VAC 50-60 Hz. 10x5x5; 17 lbs sh. Used. #08M24N-4-1, \$39.50



5 VDC 3 AMP or 6 VDC 2.5 AMP POWER SUPPLY from 115 VAC 47-430 Hz input. 4x4x2 1/2, 4 lbs sh. 301a #51-05-230-01, used, \$14.95

12/24 VDC 22/11 A



OFF-2 POWER SUPPLY, output 12 VDC 22 amps or 24 VDC 11 amps. With mains and load control and output mode indicator lights. Input: 90-130 VAC 60 Hz. Size: 11x8x10 1/2, 90 lb sh wt. Used, \$65.00

DYNAMOTORS

TYPE	USED	RENEW	TYPE	USED	RENEW
DM-25	2.95	4.95	D-401	6.95	
DM-28	6.95	0-402	6.95		
DM-32	2.95	4.95	D-401 (SPEC)	8.95	
DM-32 (2 V)	4.95	DY-9	9.95		
DM-33 (WRITE AP)	4.95	DY-10	12.95		
DM-34	4.95	DY-17	12.95		
DM-35	20.00	DY-21	8.95		
DM-36	2.95	6.95	DY-22	9.95	
DM-37	13.00				
DM-40	5.95	DA-6A	8.95		
DM-41	5.95	DA-1F	11.00		
DM-42	15.00	DA-14	8.95		
DM-43	15.00				
DM-53	4.95	BD-77	19.95		
DM-53 5.95 (12V)		BD-83	8.95		
DM-64	7.95				

ADVISE US OF YOUR REQUIREMENTS OR WRITE FOR SPECS. PE-86 5.95 (COMP)
PE-98 8.95 (COMP)
PE-98 4.95 (OWN)
PE-94 9.95

CARTER MA-2503; INPUT 6 VDC 5.3 A. OUTPUT 250 VDC 30 MA. SIZE 3x5x3; WT. 6 LBS. USED \$4.95

41S14 F/COLLINS 618; INPUT 27.5VDC 22 AMPS. OUTPUT 650 VDC 550 MA. & 250 VDC @ 150 MA. SIZE 9x14 N \$15

DYNAMOTOR DM-35 INPUT 12 VDC @ 18.7 AMP. OUTPUT 625 VDC @ 225 MA SIZE: 4x4x8 1/2; 13 LBS. UNUSED \$20

INVERTERS



EICOR INVERTER X3516-1 INPUT: 27.5 VDC 165 AMPS. OUTPUT: 115 VOLT 400 CYCLE 2500 VA 1 PHASE SIZE: 16x11x8; WT: 75 LBS. EXCELLENT COND. \$49.50

PU-7 INVERTER

INPUT: 28 VDC 160 AMPS. OUTPUT: 115 VAC 400 CYCLE 21.6 AMP 1 PHASE SIZE 19x8x10 1/2; 100 LBS. PRICE: UNUSED \$49.50

5AS13N3 INVERTER

INPUT: 26 VDC 100 AMPS. OUTPUT: 115 VAC 400 CYCLE 1500 VA 1 PHASE SIZE: 14x9x6; WT: 50 LBS. PRICE: UNUSED \$45.00

MG-149H INVERTER

INPUT: 24 VDC 36 A. 750 VA. OUTPUT: 115 V. 400 CYCLE 1 PHASE 500 VA & 26 V. 400 CYCLE 1 PHASE 250 VA. SIZE: 12x8x8; WT: 25 LBS. PRICE: GOV. RECOND. \$49.50

INVERTER

INPUT 27.5VDC 60A OUTPUT 115 V 400 CY 750 W 3 PHASE 26 V 400 CY 50 W 1 PHASE SIZE 11x10x6; WT: 40 LBS. LELAND 10285 USED \$34.95

WINCHARGER

51S1 DYNA-MOTOR on 15x9 base. Input 26 VDC 22 amps; output 1500 VDC 200 mA and 330 VDC 100 mA. 44 lbs sh. Used, \$32.

DYNAMOTORS from T-195 Xmitter; 27 VDC input. Used. ***
#EV-DYN/T195, input 28 amps output 1000 VDC 500 mA 8x4 dia, 15 lbs. \$32.50
#LV-DYN/T195, input 10 amps output 250 VDC 300 mA, -45 VDC 10 mA, and 115 VAC 30 VA 400 Hz. 8x3 d. \$25.



JACK & HEINTZ

F-132 INVERTER

INPUT 27.5 VDC @ 100 AMPS. OUTPUT 115 V. 400 CYCLE 1500 VA 3 PHASE SIZE: 16 X 11 X 7; WT: 55 LBS. PRICE: USED \$75.00

F-147 INVERTER

INPUT 27.5 VDC @ 180 AMPS. OUTPUT 115 V. 400 CYCLE 2500 VA 1 PHASE SIZE: 18x11x7; WT: 45 lbs. PRICE: USED \$75.00



JACK & HEINTZ INVERTER #AN-3532-2 INPUT 27.5 VDC @ 20 AMPS. OUTPUT 115 VOLT 400 CYCLE, 3 PHASE, 250VA VOLTAGE REGULATED. SIZE: 12x7x4 1/2; WT: 20 LBS. FED#6125-617-0967 Used, \$18.95

1000 VDC 350 MA

BD-77 DYNAMOTOR; INPUT: 14 VDC 39 AMPS. OUTPUT: 1000 VDC 350 MA. SIZE: 11x10x8 SHPG. WT: 40 LBS. \$19.95

PE-73 DYNAMOTOR; SAME AS BD-77, BUT WITH 28 VDC 19 AMP INPUT, RECOND. \$30.00

DM-42 INVERTER

DM-42 DYNAMOTOR; INPUT: 12 VDC 39 AMPS. OUTPUT: 1030 AND 515 VDC @ 215 MA. 7x7x11; 42 LB. RECOND. \$15.

VIBRATOR POWER SUPPLY

USED WITH AN/PIP-1A PUBLIC ADDRESS SYSTEM. INPUT: 5.2 TO 6.2 DC VOLTS; OUTPUT: 300 VDC 60MA, 50 VAC. SIZE: 4x3x2 1/2 3 LBS. #H17D-11077 New \$5.95

PE-104 POWER CONVERTER

6 OR 12 VDC INPUT, OUTPUT 30 VDC AND -45 VDC. SIZE: 4x4x4; WT: 10 LBS. New \$3.95 W/EXTRA IIB \$4.95

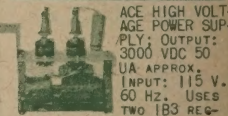
PP-855/PRC-14 VIBRATOR POWER SUPPLY

WITH FILTER NETWORK. 6 VOLTS DC INPUT, 5.35 AMP OUTPUT 135 VDC @ 155 MA. SIZE: 7x2x2 1/2; WT: 3 LBS. New \$4.95

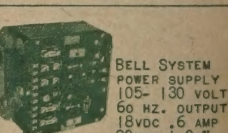
PE-1234/U

115/230 VAC POWER SUPPLY FOR URM-32 freq. meter; output 180 VDC 20 mA, 6.3 VAC 1.1 amp. Xformer 460 VDC 20 mA, 6.3 V 1.25 A.; Choke dual 20 Ry 20 MA. W/EX tube. 12x3x1 1/2 18 lbs sh wt. Used, \$14.95

HIGH VOLTAGE



ACE HIGH VOLTAGE POWER SUPPLY; OUTPUT: 3000 VDC 50 MA APPROX. INPUT: 115 V. 60 HZ. Uses TWO 1B3 RECTIFIER TUBES. WITH MOUNTING FLANGE. SIZE: 6x7x2; SHPG. WT: 8 LBS. UNUSED. #ACE-HV3000, \$5.95 SPECIAL! 2 for \$10.00



BELL SYSTEM POWER SUPPLY 105-130 VOLT 60 HZ. OUTPUT 18VDC 26 AMP 20VDC 1.0 "W" ALSO PLUG

PP-18 CONVERTER 12 VDC 4 AMP TO 24 VDC 1.5 AMP. PARALLEL FOR MORE CURRENT. WITH VIBRATOR SIZE: 6x5x8 1/2; WT: 10 LBS. New \$4.95

TUBE SOCKETS

4X150 SOCKET PAIR F/ T-195 w/mitter modlts 4x3x2 1/2, #1195/4X150 Removed, \$22. \$10.

4-125A 4-400A

CERAMIC SOCKET, 2-7/8" square; removed from equipment. JOHNSON 275 \$6.50 each. CHERNYS for 3K600, \$10.00 or 124-110 (4X150/4X250); used. #3K600/124-111, \$3.00 ea. 2/\$5.

OCTAL MOULDED 2 HOLE MTG. .35 " CERAMIC (SPECIFY) .60

LOCTAL MOULDED 2 HOLE CERAMIC TYPES 4, 5, 6 & 7 CONTACTS, STANDARD SIZES MOULDED TYPES 4, 5, 6 & 7 CONTACTS, STANDARD SIZES .45

MINIATURE MOULDED 7 & 9 .35 " CERAMIC 7 & 9 .50

SHIELDS FOR MINIATURE TUBE .40

GIANT 4 CONTACT CERAMIC FOR 211/VT-4C, 872 ETC. GEMAL 7461594-G USED .49

GIANT 4 CONTACT CERAMIC FOR 715, 718 ETC. JOHNSON 234 TYPE STR. #227684.98 UNUSHD \$1.25

CERAMIC FOR 82 ETC. used 1.85 " 832 ETC. used 1.85 " 872 W/SHOULDER 1.50 " 811/866 " used 1.25

JOHNSON CERAMIC SOCKETS, unused #214 for 7500T/1500T etc \$2. #244 for 8008 etc. \$2.00 #247 for 829B, 7094 \$2.00 #123-209-200 for 811/866/211 tubes; with shoulder, \$2.50 #122-101-207 for 826/832/4X3; VHF septar, \$4.00

#124-0113 SCREEN GRID BYPASS for 4X150/4X250; 2000 pf. \$3.

TERMINAL BLOCKS--TELEPHONE TYPE #TT4X10F4A, 4 rows ten terminals each; total 40. Size: 3x2x2; unused \$4.25

#660069, 3 rows 26 removable terminals; 78 total. 7x2x3 \$4.50

4E9865 40 terminals, flat mounting 6x2x2 \$3.00

879-9661 3 rows of 30 terminals one side wire wrap. size 8-7/8x2-3/4x1-3/4 \$3.50

AIRCRAFT STYLE TERMINAL STRIPS AN-3436-2-6 6 term. 4x7/8x11/16 6-32 studs on 19/32 centers .55

AN-3436-2-9 9 term 6x7/8x11/16 6-32 studs on 19/32 centers .75

AN-3436-4-10/10 term. 7-7/8x11 10-32 studs on 3/4 centers .80

AN-3436-4-16/16 term. 12x1x11 10-32 studs on 3/4 centers \$1.25

581-22 BOX Consists of 3 AN-3436 terminal strips 13 term. each & 2 AN-3436 9 term. ea. The 10/32 studs extend thru. the phenolic board and have solder terminals. Board size 5x8x2; 4lbs \$2.75

TERMINAL STRIPS WITH CLIPPED WIRE

BARRIER TERM. STRIPS AVAILABLE, 3/4, 1 & 1 1/2" WIDTHS, 2 TO 16 TERM. (INLS). TWO TERMINAL 20P. EA. EACH ADDITIONAL TERMINAL 3P. WE WILL SHIP CLOSEST TO YOUR ORDER.

HEAVY DUTY TERMINAL STRIPS, APPROX. 2" Wx1 1/2". 6 TERM. 4x2 1/2. 1.50 12 TERM. WITH 8 " 6 " 2.00 SCREW DOWN 12 " 8 1/2 " 3.00 HOLDER TYPE \$4

Capacitors

MFD	VDC	SIZE	PRICE
4	400	2x4x1	\$.75
2	600	2x2x1	.65
4	600	3x2x1	.85
6	600	4x2x1	1.00
7	600	4x2x2	1.10
10	600	5x2x1	1.35
1.5	1000	4x1x1	.85
2	1000	4x1x1	.95
4	1000	4x2x1	1.10
15	1000	5x2x2	1.85
15	1000	(dented)	1.25
Dual 15 mF	1000 V/6 mF		
600 VDC			2.50
2	1500	4x2x1	1.15
4	1500	4x2x1	1.95
1	2000	3x2x1	1.25
4	2000	5x2x2	4.00
1	2500	4x2x1	1.50
0.6	3000	6x2x1	1.25
1	3000	4x2x2	1.35
0.1	3500	4x1x1-3/8 d	1.00
53	3500	12x4x4	25.00
1	4000	7x3x1	2.75
2	4000	5x2x1	5.50
2x.01	4500	5x2x1	2.00
1	7500	14x12x4	14.00

COMPUTER GRADE

MFD	VDC	SIZE	PRICE
24000	5	4x3	\$.75
23000	7	5x1 1/2	.60
		Bank of five	2.25
61000	10	5x3	1.50
150000	10	5x3	3.25
2000	15	4x1 1/2	.75
73000	15	4x3	3.00
40000	20	4x2x2	2.75
52000	20	6x3	2.85
1100	25	4x1 1/2	.75
44000	25	6x3	3.00
24000	30	4x2x2	2.25
25000	30	4x2x3	2.25
54000	30	6x3	4.00
18000	35	4x3	2.50
25000	35	4x2x2	2.75
37500	35	6x3	3.75
9400	40	4x1 1/2	2.00
16000	40	4x3	2.50
30000	40	4x3	3.00
48000	40	5x3	4.00
51000	40	4x3	4.25
3000	50	4x1 1/2	1.25
12500	50	4x3	2.25
23200	50	4x3	3.25
34000	50	5x3	4.00
3500	52.5	4x2 dents	1.25
3500	55	4x3	2.00
13500	60	4x3	3.00
30000	60	6x3	3.00
950	75	4x3	2.00
16800	75	4x3	4.25
1400	99	4x2 dents	1.00
900	165	4x2 dents	1.00
1250	180	4x2	3.00
500	200	4x2 NEW	2.50
500	200	4x2 used	1.50
200	250	3x1 1/2	1.35
4300	250	5x3	8.00

BUY 5 COMPUTER GRADES OF SAME rating, take 20% off.

PHOTO FLASH TYPE, 600 mfd 360 VDC, 3x1 1/2 \$2.25 5/\$10.

MICA CAPAC- MFD WDC CM ITORS used .01 600 55 IN RF power .02 600 55 circuits. .022 1200 60 JAN CM-size .0004 2500 55 less than .0006 2500 55 12x1-3/8 .016 2500 60 \$1.25; 5/\$5. 35 pf 3500 55 .01 1200 45

MICA CAPACITORS, various values as available--write your need P2L size \$3.75; P2L \$6.00

ROTARY SWITCHES

Gold flash ceramic switch 2 deck 12-position contacts 1 1/2 dia. 1-3/4" dp. 889-5718 \$4.50

ROTARY SWITCH, 2-DECK. ONE 4POT MOMENTARY. BOTH SIDES; OTHER 2POT MOM. B.S. AND IPST MOM. 1-3/8" DIA.; CERAMIC. #329825-20, \$1.00

MINI-ROTARY, 1-pole 3-pos. shorting. 1 1/2" dia; 1/8" dia shaft. No hardware. #LED-M13-S, unused, 75¢

THUMB-WHEEL WAFER SWITCH, 18 POSITION, NUMBERED, 2 HOLE MTG. HORIZONTAL TAL OR VERTICAL, 2x3/8" # 960 NEW \$1.25 SAME AS ABOVE 10 POSITION 2x3/8" # 980 NEW \$.75

2-DECK 5-POS W/ON-ON switch 2/SPST 8 & 125 V. 2x1 1/2, 1/2" d shft. #2D5PSW \$3.

ROTARY SWITCH 10 POLE, 4 POS. 5 DECK. 3x1 1/2. RM-39/31.9 RE-MOVED \$1.00

ANTENNA COUPLING SWITCH, 6-position, 1-pole. 2-3/8" dia. Ceramic, bar knob. Removed, \$3.95

Rotary switch one deck 17-position, one tie deck. 1 1/2" x1. silver pl. SW-24K \$2

1-POLE 12-POS non-shorting; 1 1/2" dia X 2" lg shaft. Mailory #32112J NEW \$1.25

DAVEN SWITCH

18-POSITION, CONTINUOUS TURN, 2" dia. Zinc-silver contacts. 2x2 1/2" dia shft. #329825-92.2 Unused, \$3.00

Miniature tap switch 1 pole 7-position rated 1 amp. 1x2". Grayhill 7 pos. \$2.00

Power on/off sw. rated 3A. 125V. ac/dc w/2-gang pot. one meg. & 600 ohm concentric. 1x1 1/2" VC-0058 \$1.50

Ceramic 5 pole, 3-position, 2 deck rotary 2x1 1/2", used Re-moved S-602/13 \$1.30

Ceramic 1 pole 12-position rotary sw. 1 1/2" dia. w/stop. re-moved S-601/13 \$2.00

ACTUATOR

will operate 12-28 vdc 12 position 30 degrees each. 2 1/2" shaft for mtg. & rods for wafers, no wafers with unit. 2x3x1 1/2; 1 lb. MX167869G1 or equivl. \$2.00

ANTENNA CIRCUIT SWITCH

100 WATT 3/4 WAVE 3/8" BNC AK Size: 4x2 1/2 IN. #329626 \$2.50

DAVEN SR-14 SERIES D 5-deck 24-position ea rotary switch, 2 1/2" square decks with gold flashed contacts and binding posts. 5/8x2 1/2 dia shft o/a 6 1/2" lg. #7873 NEW \$12.

Parts Kits

DISC CERAMIC CONDENSERS 33 ASST. 15MFM-.61MFM. Good Value \$1.25 a KIT

HARDWARE ASSORTMENT from electronic equipment such as washers, screws, rivets, nuts, terminals; 2 lbs \$2.00

MICA CONDENSERS 25 ASST. 10 MFMF TO 6800 MFMF. \$1.00 a KIT

TRIMMER CONDENSERS 25 ASST. 3 TO 28CMF Wide Range \$1.00 KIT.

PRECISION RESISTORS 25 asst. on boards. Carbon or wire wound 1%. \$1.50/klt

RESISTORS WIREWOUND 25 ASST. 5 to 20 Watt. Wide range of values some tapped. 25 ASST \$1.00

VOLUME CONTROLS 10 ASST. Popular Values \$1.00

TUBE SOCKETS 20 ASST. Octals Locals Miniatures Wafers etc \$1.00

PILOT LIGHT SOCKETS 25 ASST Bayonet Screw etc. \$1.00

TERMINAL STRIPS, Tie lug strips, asst types. 25 for \$1.00

TERMINAL WUGS, ring spade, crimp types. Wide variety of sizes for all uses in clear plastic box. APPROX. 200 PCS. \$2.00

NOTARY WAFER SWITCH six different types. Multi-contacts and contacts \$1.25

BATHUB CONDENSERS KIT 1 to 1 mfd up to 600 VDC. Various types 10/\$1.

MORE CAPACITORS Polystyrene 100/\$15. .01 uf 200 V, 4/\$1. .009 uf 500 V, 4/\$1 Mylar types: .022 uf 100 V, 4/\$1 0.33 uf 500 V, 5/\$2

AS CAPACITORS

MFD	VAC	SIZE	PRICE
4	220	4x1x1 1/2	\$1.00
14	220	4x2x1 1/2	2.25
47-58	220	4x2 1/2 dia	2.25
3.9	330	4x2x1	1.00
4	330	6x2 1/2 dia	1.00
7	330	4x3x1 1/2	1.35
17.5	330	5x2x1 1/2	2.50
12.5	360	4-7/8x2 1/2	2.00
2	440	2x2x1	1.00
25	440	6x3x2	4.00
48	480	10x4x1 1/2	8.00
21	525	6x3x1 1/2	4.00
18	600	4x2x2	4.00
4	660	3x2x1	1.25
8	660	6x2x1	2.00
10	660	5x2x2	2.50
1.3	950	5x2x1 1/2	3/1.00
.05	2500	2x1x1 1/2	.85
1.3	4000	8x2x2 1/2	4.00

ELECTROLYTIC (E)/PAPER (P)

6800uf 16 V axial (E) 4/\$1 450 uf 25 VDC (E) 50¢ 5/42 1000 uf 25 V axial (S) 50¢ 1500 uf 35 V axial (E) 75¢ 40-40 uf 150 V (P), 2/\$1. 50-50 uf 150 V (E), 45¢ 80-40-20 uf 150 V (P) 2/\$1 250uf 150 V axial (E) 2/\$1 25-25 uf 200 V (E), 45¢ 50-50-50 uf 200 V (E) 65¢ 140 uf 300 V axial (P) 85¢ 120 uf 350 VDC (E), 95¢ 80 uf 450 VDC (E), \$1.25 80-30-20 uf 450 V, 40 uf 150 V (E), used \$1.25 0.01 uf 7500 V, (E), \$3.50

160-240-240-5 mF 200 VDC case ground; (E), \$1.00

1 KV DISCS: 7/31. 10/\$6. UR. 0001 2.002 3 KV DISCS: 5/31. 10/\$12. UR. 00009 .00025

TANTALUMS, 35 VDC PCB-type: 4.7 or 6.8 uf 4x1 1/2 10/\$20 40 uf 25 V, 2x3/8, 2/\$1. 47 uf 20 V, 2x1, 45¢ 20 uf 50 V, 1x1 3/8, 2/\$1. 80 uf 150 V, 2x1x2 3/2.

RESISTORS

3/5 W, 20¢ EA; 10/25 W, 30¢

Resistance	Power	Notes
0.33 Ohm	11 watt	WW Dale
0.5 "	10 "	"
2.0 "	10 "	"
2.43 "	3 "	"
10 "	5 "	"
24 "	5 "	"
70 "	5 "	"
100 "	5 "	"

BLEEDER RESISTORS

Resistance	Power	Notes
3900 "	25 "	FERRULE
1000 "	25 "	WW
13K "	10 "	"
100K "	3 "	"

1.6 OHM 220 W, 5¢, \$1.50 0.05 " 105 W, 5¢, 4x1, \$1.

PRECISION RESISTORS

5K OHMS & WATT 0.1%, 60¢ 7.5K OHMS, 0.333 WATT, 0.25¢, WIREWOUND, 40¢ EA. 28K OHM 1/2 WATT 0.05¢, WIREWOUND, 40¢ EA. 55 MEGOHMS, 10 WATT 1¢, DALE WIREWOUND, \$1.00 EA.

DALE PRECISION POWER RES.

100 WATT (3x3x1 1/2) IN VAL-UES: 45A (3¢), 10A (1¢), 450A (1¢), 1400A (1¢), \$2.50 250 WATT (4x3x2 1/2) IN VALUES: 600A (1¢), \$3.00

125 WATT 2.9 ohm 1%, \$3.25

260 ohms 5 watt 1%, 2/\$1. 4K ohms 3 watt, 1 1/2 2/\$1.00 10K ohms 150W, 6x2 1/2, \$1.75 75 ohms 50 W, 5¢, 4x5/8 \$1.

SLIDER VARIABLE W/ RESISTOR

15 ohm 35 watt, 10%, \$1.00 10 ohm 75 watt Ohmite \$1.50

MINIMUM ORDER \$5.00

CHOKES

12 HY 500 MA 77 ohm
5x3x3; 22 lbs #9230 \$10

10 HY 225 MA 75 ohm 500V
4x3x3; 12 lb #302809 \$6

20 HY 100 MA, 3x4x4x3, 8
lbs. #BF-8583, used, \$5.00

4 HY 650 MA 25 ohm 1.07 kv
6x5x4; 20 lb 327485547 \$9

10 HY 150 MA 130 ohm 1800VA
2x2x1x5; 5 lb SHB-20291534.

10 HY 400 MA 55 ohm 700 wv
5x4x3; 25 lbs 30820304237

10 HY 125 MA 2 KV 500 V to
gnd. 4x2x1x4; 6 lb #92-3 \$4

10 HY 225 MA 100 ohm 500 V.
4x3x3; 6 lb 1-86944 \$4

4 HY 550 MA 40 ohms \$4.95
3x4x4x4; 7 lb Paeco 911-39

4 HY 250 MA 60 ohms 3000V1
3x2x2x3; 7 lb U-7412 \$3.95

20 HY 50 MA 200 ohms 1 KV;
2x3x3x2, 3 lb. Kenyon mfg;
#30369-3, unused, \$3.50

10 HY 55 MA
2x3x3x3; 5 lb 147110 \$1.95

10 HY 40 MA 1780 volt test
3x3x3x3; 8 lbs U-7402 \$3

10 HY. 50 MA 100 ohms. 3x
2x2; 1 lb. 30573/341 \$2.00

17 HY. 60MA. 300ohms. 2x
2x2x2; 1 lb. HHO-30326-31A\$3.

8 HY 150 MA 100 ohm \$3.95
4x3x2x2; 10 lb T1A0LHA

10 HY. 100MA. 263 ohm. 3x
3x2x2; 3 lb. #228-1859 \$3.25

12 HY 80 MA 375 ohm \$1.50
3x2x2x2; 1 lb. SLR20353

150 MA AVAILABLE VARIOUS
HY TELL US YOUR NEED.

3 HY 350 MA 30 2K VPT; 3x
4x2x2, 6 lb. L-225/PP115 \$3

6.7 HY 215 MA 2100 V test;
3x4x3x3; 12 lb. Ux6911 \$5.

TELE. REPEAT

4 WINDINGS 1 OHMS EACH.
CRDS-TALK PROF SHELL.

3x1327A 6x2x4x4; 3 lb. \$3.00

PRI: 60 V 60 Hz. SEC: 2130
V 16 ma, 112 V 4 ma. 4x3x
x4; 10 lbs. #HA313F \$3.95

10,000 VOLT

AMP P/N 625321-3
PRI: 115V 60Hz.
SEC: 10,000VAC 100MA
5x5x4; 10 lbs. \$20

SCOPE XFORMERS

400 HY POWER JUTLY as on
Page 10; 300V VDC 50 wv
output from 115 VAC 60 Hz
input. Includes 2/B3 tubes
6x7x2, 8 lbs sh wt. Unused.
#ACB-HW900, \$5.95 2/10.

PRI: 112/117/122V. 60 Hz.
SEC: 226V 15 MA.
300V 125 MA. TAPPED
7V/32/346
6.5 V. 4.2 AMP.
5x3x3x3; 6 lb. 229613-R69 \$5

PRI: 115V. 50 to 1200 Hz.
SEC: 700VCT 70 MA. TAP. 65
SEC: 400V 10MA. 3W42 A.
6.3V 4A. 6.5 V 1.6A.
5x4x4; 10 lbs.

C-F-301388 \$4.95

PRI: 115/230 VOLT.
SEC: 54.4VCT 2.5A
37.5VCT 7.8A

6x5x3x4; 20 lbs.
Schott TY4X020A
\$12.35

PRI: 117V 50/60
SEC: 6500VCT
65WAC. 4350WV
5x6x3x7; 35lbs
#39-6504 \$25.00

DUAL CHOKE

11 HY 100 MA
200 ohms
4x4x5; WT 8
#3057K-1

\$1.75

HY CURRENT CHOKES unused.
#622048C, 1 mHY 25 amps,
0.08 ohm DC resistance.
Size: 3x3x3x2, 5 lbs \$6.95

#622188, 4 mHY 3.7 amps DC
0.083 ohm DC resistance.
Size: 4x3x3x1, 4 lbs \$4.95

1.5 HY 1.5 AMP
5000 V. TEST
6x8x4x6; 6
SHPG. WT: 60 LB
5950-139-6041
\$14.95

12 hy 400 ma
100 ohm
2500 V test
6x5x4; 22LB
1217434 \$10

10 HY 75 ma
375 ohm
2x2x1x4; 11b
ADA8696 \$3

1 hy 235 ma
80 ohm
2x2x1x4; 8 oz
#0146 \$2.00

6.3 hy 6.24A
61 ohm
3x3x3x3; 5 lb
814-2421 \$4

PRI: 117V 50-60VCT
SEC: 3/5V CT 6 2A
2/5V CT 6 2A
2/2.5V 6 10A
7x4x3; WT. 12 LB
GILFILLAN #34148-1
PRICE: \$5.95

1.5 mH 30 ADC
0.035 ohm, 15
Vrms 2400 Hz
3x5x2x2, 6 lb
#924-0472 \$9.

90-7882, 80
HY 25 ma;
1000 ohm, 1KV
test. \$4.50

90-7881, 80
HY 30 ma 250
ohm; 1500 V
test. \$2.00

90-7884, 0.05
HY 800 ma 2
ohms; 500 V
test. \$3.00

3.5 HY 500 MA
10 V. 60 CYC
30 ohms 715W
4x5x3x3; 10 lbs
TF1A04KA/AB64A
\$2.95

20 HY 80 MA
320 ohms
2 kv insula
4x3x3x3; 7 lb
#30854 \$4

STANCOOR
CHOKES
#C-1412,
4 HY 250
ma 60 1
3 KV in-
sulation. 2x
3x3x3, 5 lbs.
Used, \$4.00

#C-8326, 1 HY
300 ma 43 ohms
1500 V insulation.
2x3x3x1,
3 lbs. NEW \$3.

10 HY 225MA
85 ohm
3x3x3x5
WT. 11 lbs.
TF1A04AYY
\$3.95

PRI: 115 V 60 Hz
Sec: 32 VCT 20 A
Fred #0234
4x3x4; 15 lbs
#881-2486, \$20.95

3 PHASE DELTA
60 Hz 400 wv
nominal 208 V
3phase
1940 wv
180V v rms 52
ma rms per leg
5x5x4; 18 lb
686-6836 \$25

DUAL CHOKE

11 HY 100 MA
200 ohms
4x4x5; WT 8
#3057K-1

\$1.75

CHOKE; 2.5 HY
700 MA; 16
ohms. SIZE:
5x4x3/8x4; 5
SW WT: 17 LBS
#147-1340,
\$3.95

10 HYS 500 MA
45 OHM DC RES
500 WORK VOLTS
#5950-646-1383
\$5.95

PRI: 115 VAC 60 Hz
Sec: 280 VCT 75 MA; 13.5 V
1.2 amps; 5 VCT 3 A.
Size: 4x3x4x5-8; 16 LBS.
#193-8767 \$3.95

6 HY 175 MA 104 ohms, 3x3
x2; 5 lbs sh. #5950-241-
2664, \$4.00

AF CHOKE 5 HY 1 Vrms 1150
ohms; UTO #84517. 3x2x2 die
2 lbs sh. #8C328-31, \$3.00

PRI: 115/230 VAC
SEC: 850 VCT 70
ma, 6.3 V 3.8 A.
3x4x3x3, 7 lbs sh
#24626/TS1060 \$6.

117V 50-60VCT
SEC: 3/5V CT 6 2A
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2/2.5V 6 10A
7x4x3; WT. 12 LB
GILFILLAN #34148-1
PRICE: \$5.95

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SEC: 3/5V CT 6 2A
2/5V CT 6 2A
2/2.5V 6 10A
7x4x3; WT. 12 LB
GILFILLAN #34148-1
PRICE: \$5.95

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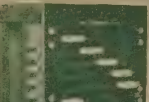
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2/2.5V 6 10A
7x4x3; WT. 12 LB
GILFILLAN #34148-1
PRICE: \$5.95



DAVIS DIMMER
AUTO TRANSFORMER
230 VOLT 60 CYCLE
1 PHASE WITH 5
48 VOLT.

CIRCUITS THAT
CAN BE VARIED 0-
48 V. MAX. 20 A.
TOTAL.
SIZE: 10x10x7;
SHRG. WT: 30 LBS
#61-3 \$19.95

**MULTI-VOLTAGE
ISOLATION TRANS.**
PRI: 73/88/95/105/
115/125/190/210/
230/250. 50/60 cy
SEC: 1.6/3.2/189
193/196/200/203
@ 1.6 kv
9x4x7x7; 40 LBS.
229619-6 \$14.95

SWINGING CHOKE
12 hy 400 ma
100 ohm
2500 V test
6x5x4; 22LB
1217434 \$10

10 HY 75 ma
375 ohm
2x2x1x4; 11b
ADA8696 \$3

1 hy 235 ma
80 ohm
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#0146 \$2.00

6.3 hy 6.24A
61 ohm
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7x4x3; WT. 12 LB
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2/5V CT 6 2A
2/2.5V 6 10A
7x4x3; WT. 12 LB
GILFILLAN #34148-1
PRICE: \$5.95

117V 50-60VCT
SEC: 3/5V CT 6 2A
2/5V CT 6 2A
2/2.5V 6 10A
7x4x3; WT. 12 LB
GILFILLAN

ANTENNAS

MP-22 MAST SECTION MOUNTING BASE WITH SWIVEL THAT WILL TIP TO 90 DEGREES, RIGHT OR LEFT AND WILL LOCK IN THE VERTICAL POSITION. WILL TAKE MS-53 OR MS-54 MASTS AS THE STARTING SECTION. MOUNTING PLATE SIZE: 5X5 HEIGHT OF BASE 10". WT: 10LBS. \$4.95

MP-22A SAME AS ABOVE EXCEPT THE STARTING SECTION IS MS-51 AND YOU CAN ADD MS-50 & MS-49. \$4.75

MAST SECTIONS (shown to left) 3 ft. painted, copper-coated tubular steel. Sections screw together to make desired length with MS-49 as top--then MS-50, -51, -52, and -53. MS-53 can be screwed into another MS-53 for added length. (MS-53 also screws into MS-54, -55, & -56, none of which are available.) Sections self-supporting to 15 feet. Taper 5/8" to 3/16"; 1 lb. sh. wt. per section. May need paint but usable. MS-49-50-51-52, used 75¢ ea. Unused \$1.25 MS-53 section, used \$1 each. Unused \$1.50

CW-206 ROLL RAG for MS-116-117-118 mast sections; 40"Lx3"Hx5"W, used, \$5.00

ADAPTER BASE WITH INSULATOR, MAST SECTIONS MS-52 OR MS-53 WILL SCREW INTO THE TOP, AND ADAPTER BOTTOM WILL SCREW INTO MS-52 OR MS-53. CAN BE USED TO ISOLATE SECTIONS OF WHIP OR DIPOLE. SIZE: 1 1/2x8; 1 1/2 LBS. NT-66023 \$1.95

TT-250 MOUNTING BASE for BC-620 & -659 transceivers; 18 lbs. sh. wt. \$20. CO-278 CORD 8' unused \$4

MP-41 MAST BASE bracket for all mast bases which need 3" hole mounting. 3x14x10, 7 lbs. \$5.00

AB-15 BASE for WHIP ANTENNA SECTIONS MS-116-117 118 ALSO AB-21-22-23-24. SPRING ACTION WITH INSULATOR 3x3" AND COAXIAL CONNECTOR FOR USE WITH PL-259. REQUIRES 2" HOLE FOR MOUNTING. SIZE 15 x 3 WT: 2 LBS. \$4.95

WHIP ANTENNA MAST SECTIONS FOR USE WITH AB-15. MS-116 is LARGEST, 39 1/2" L x .393" DIA; CAN BE STACKED. MS-117 & -118 TAPER 39 1/2" L. MS-116 OR -117, \$2.50/SEC. MS-118 \$2.50

CU-92/APN ANTENNA COUPLING UNIT is a impedance matching device enabling the operation of 2 receivers from one ant. has one SO-239 & 2-binding posts and tuning adjustment 500 KHz-4 Mhz. \$3.95

A-62 Dummy Load for SCR-508-528-BC-604 \$5 A-83 " " " 608-628 " 683 \$4

AS-27A/ARN-5 Horizontal folded dipole used on BC-733, ARN-5 Receivers 108-110 mhz etc. \$10

AT-2/APN-2 DIPOLE ANTENNA, 150-180 Mhz \$5.00
AT-438/GR DIPOLE ANTENNA 15" folded, takes PL-259 coax. conn on insulated bracket. \$15

ANTENNA WIRE SOLD COPPER #10 VINYL COVERED, 250' FT. \$488.40 \$25

MP-54 OFF-SET BASE FOR AB-15; OFFSET 7" FROM BASE. CTR. 1 1/2". \$7.95
20" DIPOLE W/14" SUPPORT. 230-250 Mhz; 50A LINE FEED. USES TYPE "N" CONNECTOR. \$2A288A-35 \$6.95

VIS-O-GLOW NEON LIGHTNING ARRESTORS, #4392, \$1.00 EA.

ANTENNA TUNING ASSEMBLY with two 20-400 pf 0.02" air gap variable capacitors. Each rotates 360 in 10 sec using 24 V 60 Hz and 4 mf 330 VAC capacitor (not included); can be adapted to differential use. 360 rotation actuates fixed capacitance in parallel over net 270 in 13 steps. 400 Hz servo motor runs on 24 V 60 Hz; intermittent 115 V 60 Hz required to engage fixed capacitance steps. W/schematic; 4x4x6 1/2", 5 lbs. sh. #2-01003/T-195, used, \$6.95

TRY GROUND PLANE ANTENNA designed for 72.5 MC. use but can be used on other frequencies Radiator 39", radials 40". Brass & coated steel construction with SO-239 coaxial connector. Has universal wall mounting bracket that can also mount on pipe using "UV" bolts. Shpg. wt: 15 lbs. COA-66023 \$10.00

AT-339/PRC-6 HOMING ANTENNA for use in the 38-55.4 MC range continuously tunable. Handheld unit has folding loop, 5-step output attenuator, 4' cable w/BNC conn. Loop is 24" high, collapsed 12x5x2 1/2 and comes in bag. wt: 6 lbs. \$10.00

ANTENNA HORN
AT-903/G ANTENNA FEED HORN 1/600-1850 Mhz range. 50 ohms impedance; type 3 connection. Has locking 11-position elevation adjust. Fits 2 1/2" dia. mast. Aluminum. 35"Lx26"Hx2 1/2" 40 lbs. Shipped via truck only. Used, \$35.00

AT-271/PRC whip antenna, throw-out type 8 1/2 sections with spring loaded retaining cable to keep sections together in contact, folds up when not in use. \$5
AT-272 Goose neck flexible base 8" used with flat antenna on PRC sets. \$2.

MT-652/GR ANTENNA BASE R-116-117-118; fits RT-66-67-68-70, R-108-109-110. Used \$5. COI-51048 WHIP ANTENNA Telescoping, 7 ft. extended, 15" collapsed. \$2.50

AN-109 WHIP ANTENNA 5 ft. tapered \$1.50
AN-119 " " " 6 ft. \$1.50

MP-74 GOOSENECK BASE for MS-116/AB-23 Mast Sections, 14" lg. w/spade type bracket for side mounting. \$2.00

M-422 ADAPTER for using MS-116/AB-23 sections with PRC & BC-1000 as long ant. \$2.00
AN-190 HANDHELD LOOP ANTENNA for SCR-536/BC-611 Radio Set. Similar to AT-339 \$12

210 TO 620 MHZ DIPOLE

AT-880 DIPOLE ANTENNA WITH CORNER REFLECTORS AND TWO FREQUENCY BANDS: 210-420 Mhz (L) AND 350-620 Mhz (H). 300 WATTS POWER RATING; LESS THAN 2' SWR OVER RANGE. INPUT IMPED: 50 OHMS. ADJUSTABLE ELEMENTS SPREAD FROM 12 1/2" x 7 1/2" TO 21 1/2" x 15 1/2".



DIPOLE STANDS 14" OF MOUNTING BASE. TWO REFLECTORS ARE AT 45° ANGLE TO DIPOLE, 32" HIGH AND 40" ACROSS. FOLDS TO 32X7X30. MOUNTS ONTO 2" DIA. MAST; 35 LBS. SHIPPABLE VIA BUS OR TRUCK ONLY. USED, \$24.95;

AB-101 MAST SECTIONS FOR ANTENNA SUPPORT. STEEL MAST 2 1/2" OD. 5 1/8" LG. SWAGED END AND LOCKING DEVICE. SOLD ONLY IN SET OF SEVEN WITH CARRY. WEIGHT 100 LBS. PRICE USED \$50.00

MX-384 INSULATOR, FITS OVER 1-3/8" DIA. MAST OTHER END 1-3/8" OUTER DIA. \$1.95

AB-154 BASE WITH SWIVEL STAKE, 1-3/8" DIA. SLIPS INTO MAST SECT. \$1.95

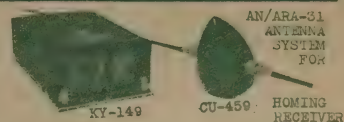
MX-857 ADAPTER, FITS OVER 1-3/8" DIA. MAST F/USE OF MS-116-117-118 WHIPS. \$1.95

MX-GUY ROPES ARE 3/16" NYLON, 800 LB. TEST, W/ADJUSTMENT HARD. INSULATOR & HOOK. \$2.00

MX-361 GUY 40 ft. with attachments \$2.00
MX-382 GUY 31 ft. " " " \$2.00
MX-1469 " 44 ft. " " " UNUSED 5.00

MX-378 GUY RING FOR FASTENING GUYS AND IS USED BETWEEN THE MAST SECTIONS \$0.50
GP-2 STEEL GUY STAKE, 162"Lx3 1/2"DIA. 1-1/8" HEAD, 1-3/8" POINT. 2 LBS. 85¢ EA. 4 FOR \$3.

ARA-31 HOMING SYSTEM



For use in the 24 to 49 Mhz FM range. Complete system consists of four AT-624 24" antenna elements, two CU-459 ant. element connectors, a KY-149 keying unit w/mtg. and one SA-474 switch box. BNC connections except for one reverse pole BNC. An/ARA-31 w/manual, new, \$50. AT-624 antenna element, \$6.00 each. CU-459 antenna connector, \$5.00 each. SA-474 switching box, \$6.00 each. KY-149 keying unit, \$25.00 each.

LP-21 LOOP ANTENNA, used with 200-1500 KHz radio compass receiver; has 24 V 400 Hz motor for rotating loop and autogain to transmit to I-82 or similar indicator Teardrop shape for aircraft; 30 lbs. \$25

AS-578/ARA ANTENNA for ARC-27-34-55 direction finding sets; 15 lbs. Used, \$25.

AS-513/ARN-6 ANTENNA LOOP for AN/ARN-6 radio compass system; 18 lbs. Used, \$15.

SPDT ANTENNA CHANGEOVER RELAY silvered contacts look good for 400 watts. 48 VDC coil has auxiliary SPDT contacts. Requires 3- "N" connectors. 3x6x1, 2 lbs. sh. Collins #123-0100-507, used, \$12.95 each

SPDT COAXIAL SWITCH rated DC to 5 Ghz, approach 1 KW. 28 VDV motor drives contact bar. Requires 3-"LT" connectors (as used on RG-17 coax), and one 7-pin control connector. 6x6x9, 3 lbs; Thompson-Ramo #14K2CA, unused, \$27.95

ANTENNA Relay, part of 30W 2 meter trans. SPDT with unused contact grounded, 60 vdc 15 ma. 4000 ohm coil. Three BNC connectors chassis, 2x1x2. unused #259-5165 \$7.95 2/\$15.00

WESTERN MICROWAVE ICL35A FERRITE ISOLATOR, 1.7 to 1.8 Ghz; 17 db isolation loss, 0.7 db insertion loss. 2 watts ave. Has male and female type N conn. 2x3-3/8x1, \$15.

AUTOMATE COAXIAL SWITCH, MODEL 94CSA, used with above isolator. Two separate 28 vdc spdt coils, ea. one side norm. gnd. Two female TNC & one type N conn. Size 3x1x3 used \$12.95 w/isolator \$25

CHOPPER RF CHOPPER

CHOPPER RF CHOPPER USED IN AUTOMATIC DIRECTION FINDING ANTENNAS TO SAMPLE BETWEEN SENSE AND REFERENCE ANTENNA. Uses Two 100 Hz -5% coils; CAN BE ACTUATED MANUALLY WITH DC VOLTAGES. Has two UC-38 connectors on 15' cables and UC-290 BNC output conn. 4-3/8x3x2; sh. wt: 3 LBS. REMOVED FROM EQUIP. #354-1013-00, \$2.95

ANTENNA's from CANADA: UHF-type for 243 Mhz approx. 23" lg; screws into hard rubber base that mounts onto a mounting base. Rubber base has provision for Canadian coax fitting. Aerial 9' w/24" base, \$5. ZA-3143 COAX, 5' w/connectors. \$1.

Cone-shaped aerial base #8, hard rubber, 5' dia. X 4" h. With 96" whip antenna. #PC-8-96, \$8.50

CABLES

NEW COAXIAL CABLE

NEW MANUFACTURE AND BRANDED WITH STANDARD TYPE NUMBERS TO MIL-R-17A SPECIFICATIONS.

PRICES LISTED FOR LENGTHS INDICATED, IN-BETWEEN LENGTHS USE THE HIGHER PRICE. LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE

COAX	Ohms	100 feet	500 feet	1000 feet	5000 feet
RG-8/U	52	.22	.21	.20	.20
RG-11/U	75	.20	.19	.18	.18
RG-58/U	53.5	.11	.10	.09	.09
RG-59/U	73	.12	.11	.10	.10

Prices subject to change without notice.

NEW COAXIAL CONNECTORS

SO-239	PL-259	CH-259	PL-258 JUNCTION
50¢ ea.	69¢	75¢ ea.	\$1.25 ea.
10 or more 10 or more	10 or more 10 or more	10 or more 10 or more	10 or more 10 or more
55¢ ea.	65¢ ea.	70¢ ea.	\$1.10 ea.

#83-876, two #83-58FCP, short screw mount barrel PL-259 conn. for SO-239, 50¢ for RG-58, 50¢ for RG-58, \$1.

COAX CONNECTORS

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptacle, (r/a) right angle; (U) used, (Un) unused.

TYPE ENG: UG-88 m (RG-58) U-45¢ ea, 10/4.	UG-99 f (RG-58) U-75¢	UG-909 bulk U-31
-306 90 m-r Un \$2.	-911 bulk Un-42	-260 m (RG-59) U-65¢
-273 to UHF Un-32.	-1090 to post U-32	-282 to post \$1.50
-290 f rec U-65¢	-1441 to two banana jacks U-35.	-291 f panel U-31.

TYPE C: UG-573 m (RG-8) U-31.50 each. UG-710 m r/a Un-33 -943 (RG-12) U-33

TYPE N: UG-201 to ENG Un-42 -27 m-r/a Un-32. -536 (RG-59) Un-11 -29 f-r Un-1.50 -58 f chas U \$1.50 -50 f-r bulk Un-32. -997 r/a rec Un-34 -21 m (RG-8) U \$1.75

OTHERS:	UG-100 m U-\$1.50	DA-113 dummy U-50
-100 panel U-\$1.50	UG-160 pulse f U-2	-109 f/U-100 \$1.50
-312 HN r/a Un-35	M-359 elbow: PL-259 to RG-58, NEW 35¢	U-175: reduces PL-259 for RG-58, NEW 35¢
-176: " " RG-59, NEW 35¢		

RG-8 COAX 100' RG-8/U COAX w/two PL-259's not wired; 13 lbs. #CB-RG8 NEW \$19.95

COAX with connectors from test sets; used-guaranteed usable: RG-8 w/two U-573 "C" conn., 13", \$2.50 RG-14 51 ohms w/U-100 & UG-707; 10", \$2.00 RG-21 w/U-626 & UG-630 "C" conn.; 37", \$3. RG-58 w/two UG-88 ENG conn., 4' min., \$2.25 RG-59 w/male & female "H", 50", #CG-357, \$3.

WIRE SALE

Vinyl-covered HOG-UP WIRE—any colors. NEW. #18 stranded, \$3/100' #14/1K \$50/5K #18 solid (black), \$3/100' #15/1K \$55/5K #26 solid, \$6/500' #9/1K \$30/5K #28 SHIELDED, braid covered over vinyl jacket—stranded; \$3.50/100' #25/1K \$35/5K

AIRCRAFT-TYPE WIRE, nylon insulation w/braid covering; silver-coated wire & shield: #28 stranded 100 feet \$4.50; 1000 ft \$35.00

COMPUTER CONTROL CABLE, 15 stranded, tinned 24 AWG conductors; color-coded vinyl insulation. Gray jacket; not shielded. \$25/100' \$115/500' \$195/1K \$300/5K

OX-263/G CABLE w/U-226 waterproof and locking connector. 102' cable has 5-19 AWG copper and steel stranded pairs. U-226 contacts gold-plated; can be rewired for 12 AWG. U226 mates to U226, 4 lbs. \$6.95

AMPHENOL

Sale! RF and AUDIO CONNECTORS, all new package; Male (M), Female (F) RIG quick assembly: #31-4702 70 (M) \$1.25; -4703 70 (F) \$1.25

UNF-types: #82-23 (M) to (F) w/ground, \$1.50 #83-55FA, press male to (F) adapter, \$1.25 #83-58FCP, short barrel PL-259 f/RG-58, \$5.50 #83-876, two hole flange mount SO-239, \$5.50 #83-877, adapter with PL-259 each end, \$1.25 #83-878, single hole mount SO-239, \$6.60 M-358, adapter "T" 2-(F) to (M), \$1.75 #81-103 mini plug or #81-104 mini jack, \$5.50

MICROPHONE CONNECTORS, all males 1/8" diameter #80-23 80-872 80-876 80-878 80-886 press lock antised lock threaded fit 60¢ ring \$1 pins 60¢ ring \$1 barrel \$1

PRC-77 MODULES

p/o 30-75.95 Mhz FM backpack transceiver. Sold "unused-as-is" with schematic but less covers: #A36-PRC77 transmitter P-A, \$10. #A38-PRC77 transmitter VFO, \$9. 2x1-1/8x2 1/2

RIBBON INDUCTOR

VARIABLE RIBBON INDUCTOR with motor drive; p/o Collins 180L antenna tuner. Consists of two 5.4" x 3.375" dia coils with 288" of drawn silver ribbon (0.125" x 0.01" thick) wound between; approx 25 uH. Ribbon is transferred from one coil to the other as a 28 VDC motor turns both. 0/a 9x2x5x8 1/2, 10 lbs sh wt. #1401/CU-991, removed from equipment, \$39.95

ROTARY INDUCTOR, 103 uH; 61 turns #10 tinned-copper wire form 3/4" x 1/2" x 3/8" dia. coil. Sliding contactor type; with coupler for 1/4" dia. shaft. Overall size: 8x8x14, 23 lbs sh wt. #939-16-LG, removed, \$25.00

ROLLER INDUCTOR, 5.5 uH; 11 1/2 turns #12 T-C wire in 1 1/2" x 2" dia. coil. Roller contacts; less coupler. Shaft 3/8" x 1/4" dia. Overall: 3x4x4 1/2, 8 lbs sh. #939-11.5-S, \$10.95

ROLLER INDUCTOR, 1.3 uH; similar to above, but 5 1/2 turns #12 wire. #939-15-3M, \$6.95

ROTARY INDUCTANCE TUNER COIL THIRTY TURNS OF TINNED COPPER WIRE AROUND A 2" DIA. X 3" DIA. ISOLANTITE FORM; 23 U-HY 100 WATTS APPROX. 1/4" DIA. SHAFT FOR COUPLING. SIZE: 5x3x3 1/2; SHPG. WT: 3 LBS. #AC55471, \$10. CERAMIC FLEXIBLE COUPLINGS, see page 29

100-TURN COUNTER WITH SPIN KNOB. THREE DIGITS: 000 TO 999. HAS COUPLER FOR 1/2" DIA. SHAFT; NO FRONT MOUNTING PLATE. OVERALL LENGTH: 6 1/2". DEPTH REQUIRED BEHIND YOUR PANEL: 4 1/2". 2 LBS. SH. #1323-COUN, \$5.95

618S-1 POWER AMPLIFIER, p/o Collins 2-25 Mhz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3x2 1/2" dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz aelayna. Also ten Centralab 850 HV capacitors 10 pf, 50 pf, 7/100 pf, and 1000 pf. Big silver contacts on ceramic switch; uses three 6189 tubes. 11x5x6, 10 lbs #3496/618S-1, less tubes, \$22. With tubes \$30 MATING CONNECTORS, 2 required, \$2.50 each. SCHEMATIC for 618S-1 power amp, \$1.50

TRANSMITTING CAPACITORS

MICA TRANSMITTING CAPACITORS, G-SERIES TYPE IN USED OR UNUSED CONDITION DEPENDING UPON A VALUE'S AVAILABILITY. VARIOUS MANUFACTURERS. SATISFACTION GUARANTEED OR PURCHASE PRICE WILL BE REFUNDED. OTHER VALUES IN STOCK, WRITE.

TYPE	KV	MFD	KV	MFD
Q1, 2 1/2" x 2 1/2" dia., wt: 3 lbs.				\$12.50 ea.
1.0	0.04	6.0	0.0001	
1.5	0.06	6.0	0.00024	
3.0	0.02	6.0	0.0006	
4.0	0.0062	10.0	0.00015	
5.0	0.00015	5.0	0.008	

Q2, 3 1/2" x 3 1/2" dia., wt: 5 lbs. \$18.50 ea.

2.0	0.03	10.0	0.0002	
2.0	0.045	10.0	0.00057	
10.0	0.00015	15.0	0.0002	

Q3, 5" x 4" dia., wt: 8 lbs. \$27.50 ea.

2.5	0.15			
5.0	0.02	20.0	0.000051	
6.0	0.006	20.0	0.00015	

Q4, 5" x 5 1/2" dia., wt: 12 lbs. \$39.50 ea.

4.0	0.084	5.0	0.012	
4.0		10.0	0.02	
6.0	0.024			
6.0	0.0373			

Q5, 10" x 6 1/2" dia., wt: 22 lbs. \$59.50 ea.

10.0	0.02	25.0	0.0005	
15.0	0.0068	35.0	0.0004	
15.0	0.0062	35.0	0.001	
		35.0	0.0017	

MOTORS

115 VOLT AC-DC MOTOR, starts at 15 VDC, runs counter clockwise. 3" dia X 5 1/2" lg plus 5/16" dia X 1-1/8" lg threaded shaft. 5 lbs sh. #AC-DR-102, unused, \$4.95

115 V AC-DC MOTOR, starts at 25 VDC, runs clockwise. 2 1/2 x 3 1/2 plus 5/16" dia X 1 1/2" long machined spiral shaft. 3 lbs. #AC-DR-102, \$3.

27 VDC 10 AMP 250 RPM MOTOR with brake which actuates when DC input is approx. 5 volts. Duty cycle 30 sec on, 300 sec off. 0/a 2 1/2 x 2 1/2 plus 7/8" long on 3/8" dia. shaft. 5 lbs sh. #2312-6, \$7.95

BODINE 1/12 HP GEARHEAD MOTOR, 115 VAC 60 Hz 2 amp motor, 1725 RPM. Gearhead: 175 RPM 10:1 ratio, 21 lbs 1-inch torque. Overall size: 9x 5x5 1/2. Gearhead shaft: 2-3/8" lg w/ 5/8" dia. 22 lbs. #NSL-55R \$25

3E #3504AB550A HP DC SHUNT COMPOUND MOTOR, armature 115 VDC 2.1 A; field 40 VDC 1.2 amp. 114 RPM. Double end shaft 2x5/8 and 4x5/8" dia. Casing 11x6 1/2" dia. 60 lbs sh used \$35.

160 RPM DRIVE UNIT w/clutch has Globe C-25A512 27 VDC 15000 RPM motor and 27 VDC clutch assembly. Motor operates with good torque over a to 27 VDC. 160 RPM output on 3/16" dia X 1/8" lg shaft. 0/a 3x2x4 1/2, 3 lbs. #160DRV/618 used \$3.95

100 RPM 12 VDC GEAR MOTOR, output at 3/8" x 1/8" bar which would mate with slotted shaft (not included). Also 3400 RPM available on 5/32" dia x 1/8" lg shaft. 0/a 5x2 1/2 x 3/8; 3 lbs sh. #LEE-111525 used, \$3.95

SMALL REORDER RM MOTOR, operates 4 to 12 VDC, reversible, 1/8x3/32" dia shaft; 0/a 1 1/2 x 1/2 dia, 1 lb. #R-357141, NEW \$2.; w/pulley \$2.25

DUAL SPEED OPEN FRAME MOTOR, used WITH RECORDING UNITS. 115 VAC 60 Hz; 2000 and 3000 RPM. 3/16" DIA. SHAFT EXTENDS BOTH SIDES WITH PULLEYS FOR BELTS ONE SIDE. MOTOR SIZE (LESS SHAFT): 2 1/2 x 2 1/2 x 2. SHPG. WT: 4 LBS. #TM-381, UNUSED, \$3.95

HEAVY DUTY TAPE RECORDER MOTOR - 115 VAC 60 Hz, 1500 RPM. MOTOR SIZE: 3x3x3 1/2, SHAFT 1 1/2 x 1/2" DIA. WT: 5 LBS. #DK-20220 UNUSED, \$5.95

HAND-CRANK MAGNETO GENERATORS
OUTPUT APPROX. 100 VOLTS DEPENDING ON SPEED OF ROTATION. USED TO RING BELLS IN TELEPHONE LINES. CAN BE USED FOR WORM SHOCKER AND OTHER EXPERIMENT. SIZE 4X2 1/2 WT: 1 LB. COND. USED Q-25 \$7.95; Q-42 \$10.00

DC AIRCRAFT MOTOR; GE#58A-50LJ29, 0.4 hp, 3000 RPM. ARMATURE, 60V. @ 2.3 AMPS FIELD: 27 VOLTS @ 6.5 AMPS DUTY: 10 MIN. @ FULL RATING. SHAFT 1/8" CORKSCREWING. TYPE 5/8 INCH DIA. FLANGE MTG. 3/8" CNGT. BODY SIZE: 6 1/2x4 1/2x4 1/2 WT: 11 LBS. \$4.95

VARIABLE SPEED DRIVE CONTROL WITH MOTOR AM. NO. E-85-132. GE#35750R/750A1. FIELD 100 VDC ARM. 140 VDC. 2.6 A INPUT 230 V. 50/60 HZ. 5 LBS. Unused w/schematic \$15.00

JOHN OSTER TYPE C-24A-1B KS-5829 SERIES MOTOR; 27 VDC, 0.01 HP, 7000 RPM. SIZE: 3x2 1/4; SHAFT: 1x1/8 DIA. WT: 1 LB. Unused, \$2.95

GE#5PR56HOM 110 V. 2.3 A. 8000 RPM. 1/10 H.P. 50/60 CYC. REV. SIZE 3x5 1/2, SHAFT 3/16x1 STK.#34300082 5 LBS. N. \$12.95

DICTAPHONE #70B-2P; 115 V. 60 C 1/60 HP. 1740 RPM. SIZE 3x3, SHAFT EA. END 1/8x1/2, 2LB. N \$9.95

GENERAL ELECTRIC GEAR MOTOR 150 RPM 115 V 60 Hz 3 amp reversible; torque 50 in-lb Gear ratio 10.67 55 C intermit duty. Requires 4 mf 330 VAC capacitor (not included). o/a 10x 4 1/2x6, 15 lbs sh. #5KOP1954T, used, \$12.95 4 mf 330 VAC capacitor f/above & others, \$1.

MD-34/ARA-8 MODULATOR-KEYER, p/o automatic homing keying assembly; contains Oster BT-2-13 28 VDC shunt motor, 12000 RPM 1.1 amps connected to double worm reduction with output of 32 to 50 RPM over 10-26 VDC. Also has phase shift capacitor and RF UHF connectors. 3 1/2x10 1/2x8, 5 lbs. Used, \$3.95

28 VDC 12000 RPM MOTOR #ARO-3 set. Removable worm gear; shaft 1 1/2x3/16" dia. o/a 3" x 1 1/2" dia. #897-2644, \$5.95

HAND CRANK GENERATOR AS USED IN GIBSON GIRL RESCUE TRANSMITTERS OUTPUT 28 VDC @ 175 MA & 300 V @ 30 MA. WHEN CRANKED AT 60 RPM GEAR RATIO APPROX. 72 TO 1. NO LEGS SEAT OR MOUNTING. #GEN/CRT-3 RE-MOVED \$10.00

HYSTERESIS SYNCHRONOUS MOTOR 115V 60Hz, 1800RPM, CONT. 1/8HP FL. MTG. 7", SHAFT 2 1/2"x1 1/2" DIA. SIZE 6X6, CAP. ST. USED 25LB. BODINE#MCH-54 OR EQUAL \$25.00

RECORDER MOTOR, 1500 RPM; 115 VAC 60 HZ, DOUBLE END SHAFT, 3/8x3/16" DIA. & 1/2x1/8" W/PULLEY. MOTOR SIZE: 2 1/2x2 1/2x2 1/2 WT: 2 LBS. STK.#G140700 UNUSED, \$4.95

RECORDER MOTOR, 1500 RPM; 2" SHAFT IS 3/16" DIA. FOR 1 1/2"; 3/64" DIA. LAST 2". 3/8x3/16" DIA. SHAFT ON OTHER SIDE. MOTOR SIZE: 2 1/2x2 1/2x2 1/2 WT: 2 LBS. #602-1 UNUSED, \$4.75

EAD/VE KS-5718; 115 V. .27 A. 50/60 CYC. CAP. REQ. 4 MFD. DUAL SPEED 2750/3300 RPM. MO SIZE 3x3 1/2, 4 LBS. SHAFT 5/16x1, 1/50 HP. N. \$14.95

WE KS-5871-101 MOTOR, 28.8 VDC @ 3.3 A. 5600 RPM. 0.04 HP SERIES WOUND. CONTINUOUS DUTY; REVERSIBLE WITH SPEED GOVERNOR. (MAY ALSO OPERATE AT 12 VDC AT REDUCED SPEED. SHAFT 1/2x1; OVERALL SIZE: 6 1/2x3 1/2 DIA. SHPG. WT: 7 LBS. USED \$7.95

MOTOR DRIVE ASSEMBLY 1/2 vacuum variable capacitor. Uses 1/100 HP 15000 RPM 28 VDC motor (2 1/2x1 1/2" dia.) Has worm drive from motor to a series of gears geared to a 2" lever arm with 1" vertical motion. Also has limit switches and Cinch DA-15 15-pin connector. o/a size: 8x 3 1/2x2 1/2, 3 lbs sh. #DRV501/CU991, used, \$7.95

PD-5/ARA-10 TUNING DRIVE, p/o ARN-6 remote tuning system. Uses 27 VDC 260 RPM Delco FM motor. Also 10-turn 1000 ohm linear pot driven by gear from the motor. Output with female MC-124 spline shaft. Motor shaft 3/8" long X 1/8" dia. o/a 5 1/2x4 1/2x2 1/2, 4 lbs sh. Used, \$9.95 Mating conn. \$2.50; MC-124 spline, 20", \$1.50

28 VOLT MOTOR, 135 RPM; HP: 1 oz./in. With 5/16x1" DIA. GEARED SHAFT; HAS 4 SOLDER TERMINALS ON 1x1 1/2" BLOCK. MOTOR SIZE: 5x1 1/2x7/8 DIA. WT: 1 LB. GE#58A10FJ444 USED, \$7.95

GLOBE 24 VDC GEAR CASE FM MOTOR, 80 RPM @ 12 VDC/180 RPM @ 24 VDC; 1" dia shaft with gears. o/a 5 1/2x1 1/2x2 1/2 dia; 2 lbs. #102A290, \$10.95

B-701/R-107 MOTOR FROM AS-312/ARN-6 LOOP ANTENNA. OPERATES FROM 26 VOLT 400 HZ @ 2750 RPM. WILL OPERATE FROM 12 60 HZ. SIZE: 3x2 1/2x3 WITH 3/8" GEAR. WT: 2 LB. Price: Used, \$1.95

HOLTZER-CABOT #1981-HC 120 VAC 400 HZ GEAR MOTOR, 6 RPM with 40 oz.-in. torque. Shaft 1 1/2" long x 1/2" dia. Overall size: 2 1/2x2 1/2x2 1/2, 3 lbs sh. #1981-HC, unused \$14.95

DELCO PM MOTOR 5067125, 27.5 vdc, 10,000 RPM. TWO GOVERNORS, TAPERED SHAFT 3/16x1/16" DIA. MOTOR SIZE: 3x1x1 WT: 5 LBS. \$3.95

MOTOR W/RIGHT ANGLE SHAFT & MOUNT, 1/8 HP 230 RPM. SHAFT SIZE: 5/16" LONG X 3/8" DIA. CLEARANCE BETWEEN SHAFT AND MOUNTING ABOUT 1" REQUIRES 115 VAC 60 HZ @ 1.9 AMPS. SIZE: 7x3 1/2 DIA. WT: 15 LBS. ROBBINS & MEYERS #KL-H330, \$12.95

D.C. LINEAR ACTUATOR UNIT; ARM TRAVELS 2" AT END OF TRAVEL ARM ROTATES, 24VDC, 1AMP MAX, WILL OPERATE AT LOWER VOLTAGE. SIZE 3 1/2x7 1/2, 2 LBS. P.M. TYPE MOTOR ASSY. #554125 USED \$9.95

D.C. LINEAR ACTUATOR; 26 vdc 2A. 400 RPM. 45 OZ IN. TORQUE, APPROX. 2" ARM TRAVEL ON THREADED SHAFT, REQUIRES LIMIT SWITCHES, HAS NO PROVISION FOR OVER TRAVEL. HAS BRAKE FOR FAST STOP. SIZE 5x1 1/2x1 1/2x1 1/2 #G55A10FJ450 USED \$8.95

JOHN OSTER 10 CFM BLOWER WITH MOTOR C28P-1A. 27.5 VDC 0.01 HP, 6000 RPM. SIZE: 3 1/2x3 1/2x4 1/2 WT: 4 LBS. USED \$3.95

28 VDC BLOWER, 6200 RPM WITH THE OPTION OF EITHER A SHUNT MOTOR TYPE OR PM MOTOR. SIZE: 3x2 1/2x3 SHPG. WT: 4 LBS.

BLOWER WITH PM MOTOR \$6.95

200 RPM 32 V 60 HZ GEAR MOTOR, has shaft 1 1/2x3/16" dia and 3/16" dia shaft for fan. For intermittent use, increased voltage increases torque. o/a 5 1/2x2 1/2x2 1/2, 3 lbs. #MUL-2460, unused, \$3.25

120 RPM 115 V 60 HZ GEAR MOTOR, 1/4" d shaft w/plastic gear. 4x1x2 1/2, 3 lb. #23220108, \$3.50

VICKERS AR-10007G 115 VOLT 50/60 CYCLE SELENOID OPERATED AIR VALVE ONE INCH ACTUATES TUBE PLUNGER 1" STROKE. USED SIZE: 6x4x2 1/2; 5 LBS. \$18.00

RAY-201 SYNCHRO CONTROL TRANSFORMER, similar to AY-201; rotor 26 V 1 phase, stator-11.8 V 3 phase 400 HZ. Shaft 1 1/2x1/16" dia. o/a 1 1/2x1 1/2 dia. Removed from equipment, \$4.00

AY-165 AUTOSYN DIFFERENTIAL, 400 CYCLE, 11.8 V. 3 PHASE ONE TO ONE RATIO. BENDIX & OTHERS. SIZE: 1 1/2x1 1/2. PRICE: REMOVED FROM EQUIP. \$2.95

AY-231 AND AY-232 SAME SPECS. AS ABOVE.
15CX4 TRANSMIT 115 VAC 400 HZ, used, \$4.95
15RS41 RESOLVER 26/11.8 V 400 HZ, used \$4.95
23CX4 TRANSMIT 115 VAC 40 HZ, used, \$8.95
23CX6 TRANSMIT 115/90 V 400 HZ, used, \$10.00
23CT4 CONTROL TRANS 115 V 400 HZ, used, \$8.95
23CT6 TRANSFORMER 90/1 V per degree 60 HZ \$10

2JIQ1 SELSYN CONTROL TRANSFORMER, 57.5 VAC 400 HZ; usable in pairs for remote position indication and light duty turning applications. Operable from 24 V 60 Hz with good resolution and torque. 1" long shaft tapered 1", then threaded 1/2". o/a 4 1/2x2 1/2, 2 lbs. #2JIQ1, less connector cap \$7.50; w/cap \$9.50
MK II SIZE 6 SELSYNS, 115 VAC 60 HZ; sold in mated pairs for rotational and position-indication uses. 7 1/2x4 1/2 dia, 12 lbs/pair. Used-checked, various manufacturers, \$45/pair
SIZE 5 SYNCHRO DIFFERENTIAL RECEIVER, 115 VAC 60 HZ; used to show the sum or difference of two angular motions. 5 1/2x2 1/2 dia, 5 lbs. \$10.
OTHER SELSYNS AVAILABLE. WRITE YOUR NEEDS.

2JIH1 SELSYN DIFFERENTIAL GENERATOR NORMALLY OPERATES FROM 57.5/57.7 VOLTS 400 CYCLE BUT WILL OPERATE FROM 26 VOLT 60 CYCLE AS SHOWN IN WIRING DIAGRAM ON PAGE 31. SIZE: 2 1/2x4 1/2; WT: 8OZ. PRICE WITH CONNECTOR CAPS.....\$3.95

DAYSTROM TRANSOIL CONTROL MOTOR 115 VOLT 60 CYCLE, 1 PHASE, 2 PHASE 200 VOLT, 3200 RPM. SIZE: 2 1/2x2, shaft size 1 1/2x1/2 WITH GEAR. REMOVED FROM NEW EQUIPMENT. PRICE: \$5.00

AY-101 AUTOSYN, rotor 26 V 1 ϕ , stator 11.8V 3 ϕ 400 HZ; similar to AY-201. Used, \$4.00
AY-177-RL DIFFERENTIAL, 11.8 V 3 ϕ 400 HZ, 3 ϕ ratio 1:1; same as AY-231-232. Used \$4.

MAGNESYN FIELD TESTER, Type B-1 mfgd. by Aeromath Instrument for 28 V. 400 HZ magnesyne. Has calibration charts for magnesyne usages: manifold pressure, torque pressure transmitters, torque pressure, fuel, oil, burner or water pressure, liquid level, and fuel flow. 3" indicator for setting electrical zero (EZ) and switch. Also short cable with male and female 4-pin connectors. Size: 6 1/2x10 1/2x5 1/2, 6 lbs. sh. Unused, not checked, \$25.00

LINEAR ACTUATOR, STAT. 200, TENS. 40, COMP. 40. ARM TRAVEL 5/16". MOTOR 115v. 400 HZ, 1600 RPM. DUTY 1/10. 0.04 HP. TORQUE: 6.7 IN-OZ. SIZE: 5x5x3 1/2 WT: 5 LB. AIRSEARCH#34930 USED \$3.95

LINEAR ACTUATOR, STAT. 200, TENS 75-100, COMP. 75-100. ARM TRAVEL 5". MOTOR 115v. 400 HZ, 0.025 HP 6500 RPM. DUTY 1/10, TORQUE: 3.9 IN-OZ. SIZE: 5x8x4 1/2 WT: 5LB AIRSEARCH#30146-120 USED \$3.95

RATCHET MOTOR, 24 VDC 60 RPM CONTINUOUS. ALSO THREE POSITION STOP. BAND SWITCH ASSEMBLY AS USED IN R-5/ARN-7 COMPASS RECEIVER. UNIT WILL ALSO OPERATE FROM 18 TO 24 VDC. SIZE: 3x4x1 1/2 WT: 2 LBS. #609-ARN-1 \$1.25

DC STEPPER MOTOR, operates from 12 V; PM armature, 4-wire winding; W/gears and 360° potentiometer; easy o/a 3x3x2, motor 1 1/2x1 1/2 dia. #1LK31DS, \$3.95

PRC-25 TRANSCIVER

RT-500/PRC-25 PORTABLE TRANSCIVER, 30 to 75.95 Mhz FM in bands 30-52.95 Mhz (10) and 53-75.95 Mhz (H4) using 920 channels with 50 KHz spacing. Transmitter output: 1.1 to 2.0 watts. Has 150 Hz squelch tone. Set is transistorized except for 2D4 tube in power amp. Power required: 3 VDC 0.4 amp and 15 VDC 1.4 amps. Batteries not available. Size: 4x11x14; 18 lbs. sh. Used, not checked, \$125.00

AN/PRC-25 BACKPACK TRANSCIVER SET consisting of RT-505, CY-2502 battery box, ST-138 backpack harness, H-189 (or H-188) handset, AT-592 ribbon antenna, AS-591 antenna base, AT-271A antenna, and CW-502 (or CW-216) accessory bag. Used, \$180. PRC-25 SCHEMATIC, \$5.

BA-4386 MANGNOSTM LONG-LIFE BATTERY for PRC-25 or -77; unused, \$2.95 or 2 for \$16.00



T-195/GRC-19 TRANSMITTER, 1.5 to 20 MHz in TEN BANDS; TRANSMITS CW, VOICE, or FSK. MANUAL or AUTOMATIC TUNING. POWER OUTPUT: 100 WATTS (1.5-12 MHz),

90 WATTS (12-16 MHz), or 80 WATTS (16-20 MHz). ANTENNA INPUT: 50 OHMS. AUDIO: 600 OHMS. METERS FOR PA GRID AND CATHODE CURRENTS, BATTERY VOLTAGE, AND MODULATION LEVEL WITH 22 TUBES INCLUDING TWO 4X1500'S. REQUIREMENTS 22-30 VDC 42 AMPS (9 A STANDBY). 11x22x14; 150 LBS. SH. 122 LBS. NET. USED, REPAIRABLE, \$125. T-195B/GRC, P.U.R.

R-392/URR RECEIVER, COMPANION TO THE T-195, 0.5-32 MHz in 1 KHz STEPS on COUNTER DIAL. 24 VDC 3 AMPS REQUIRED. Used, checked, \$295.

MT-1551 BASE FOR T-195 and R-392. 60 LBS. \$10. T-195 BATTERY CABLE WITH PLUG, \$4.95

T-195/GRC-19 MANUAL, \$7.50

R-392/URR MANUAL, REPRODUCTION, \$10.00

AN/GRC-19 OPERATOR'S MANUAL, \$3.00

AN/GRC-19 MANUAL, \$10.00

R-392/PRC-14 RECEIVER, 2-32 Mhz AM, CW, FSK

in 1 bands; 115 VAC or 24 VDC 5 amps, \$250.

T-631/PRC-14 TRANSMITTER, 2-20 Mhz 400 watts peak

1100 vdc, 380 vdc, 312 vdc, -105 vdc, 26 vdc

and 2/115 VAC 60 Hz. Used, excellent, \$175.

30 TO 54 MHZ RECEIVER



R-110 RECEIVER 30 to 54 MHz FM CONTINUOUSLY TUNEABLE, VARIABLE SQUELCH AND AUDIO. OUTPUT IMPEDANCE 600 OHMS. 4.3 MHz 1.1 F. WITH TUBES 3/114, 2/114, 1A3, 2/3A5, 155, 2/3C4, 2/6AK5 & 6B2. VOLTAGES REG. 135 vdc @ 70 MA. AND 6.3 VDC 2 AMPS.

Size: 4x13x7; wt: 3L LBS. USED \$49.50

R-108

RECEIVER, SAME AS R-110 ABOVE EXCEPT 20-28 MHZ. USED \$29.95

R-103

RECEIVER, SAME AS R-110 ABOVE EXCEPT 27-39 MHZ. USED \$29.95

PR-202 POWER SUPPLY 24 VDC FOR R-108-109-110 RECEIVERS. MOUNTS IN ALUM. REC. USED \$5.95



SHOCKED-MOUNTINGS FOR GRC SERIES RADIO SETS. ALL HAVE APPROPRIATE CABLES & CONNECTORS

THAT GO FROM THE MFG. TO THE SET & BATTERY. PUT THEY DO NOT HAVE JUMPER CABLE UNIT-UNIT. MT-127/11 HOLDS R/T, PS, REC., RT-70, AM-65, C434 SIZE: 4x11x14; wt: 7 LBS. USED \$25.00 MT-246/11 HOLDS TWO (2) R/T and TWO (2) PS. SIZE: 3/11x11x4; wt: 85 LBS. USED \$20.00 MT-249/11 HOLDS ONE RT-66, 67, or 68 & ONE PS. SIZE: 18x11x34; wt: 50 LBS. USED \$25.00 MT-300/11 HOLDS (1) RT-70 & AM-65 (PIGGYBACK) OR: 8x11x34; wt: 25 LBS. USED \$20.00 MT-791/11 NO CABLES, FOR SINGLE UNITS SUCH AS REC, VO, CY, CSA, PP, ETC. SIZE: 8x11x32; wt: 18 LBS. USED \$15.00

RECEIVER-TRANSMITTER

RT-62/GRC RECEIVER-TRANSMITTER, 30 to 54.9 MHz RANGE CONTINUOUSLY TUNEABLE OR 100 KHZ-STEP DECENT CHANNELS OR TWO PRE-SET CHANNELS. RECEIVES AND TRANSMITS BOTH VOICE AND 1500 HZ RINGING FM SIGNALS. THE OVERALL COMMUNICATION RANGE IS FROM 10 to 15 MILES.

THE RECEIVER CIRCUIT IS A DUAL-CONVERSION SUPERHETERODYNE TYPE WITH THE 1ST IF VARIABLE FROM 4.45 to 5.45 MHz AND THE 2ND IF FIXED AT 1.4 MHz. THE RECEIVER HAS A VARIABLE SQUELCH CONTROL AND A 600 OHM OUTPUT IMPEDANCE. THE TRANSMITTER CIRCUIT USES A CRYSTAL-CONTROLLED OSCILLATOR AND OSCILLATOR POWER AMP AND PUTS OUT 2 WATTS ON LOW POWER VOLTAGE OR 16 WATTS ON HIGH POWER VOLTAGES SUPPLIED FROM THE POWER SUPPLY SOLD SEPARATELY. THE RT-68 ALSO PROVIDES A METER AND TEST SWITCH TO MONITOR TRANSMITTER POWER OUTPUT FILAMENTS AND THE 90 VOLT INPUT. WITH TUBES 4/114, 2/1A3, 2/114, 4/1R5, 2/1A2, 155, 4/3C4, 3/3A5, 2/3B4, 3A4, 6AK5 AND 2E24. SIZE: 9x13x11; wt: 42 LBS. USED \$75.00

RT-66/GRC RECEIVER-TRANSMITTER SAME AS RT-68 ABOVE EXCEPT 20-27.9 MHz RANGE. USED \$39.50

RT-67/GRC REC-TRANS. SAME AS RT-68 EXCEPT 27-38.9 MHz RANGE. REPAIRABLE \$49.50

PF-112/GRC 94 VDC POWER SUPPLY FOR RT-66-67-68 Transceivers; provides required voltages for these sets from 24 VDC 6.5 amp input. 7x12x13, 39 LBS. USED \$25

PF-109/GRC POWER SUPPLY, as above except 12 VDC 12 A input. Used, \$54.50; Gov't reconditioned, \$49.50

PRC-10 RECEIVER-TRANSMITTER

RT-176/PRC-10 RADIO RECEIVER-TRANSMITTER; PORTABLE UNIT OPERATING FROM 30 to 54.9 MHz FM VOICE COMMUNICATIONS. THE RECEIVER SECTION HAS AN IF OF 4.3 MHz AND AN AUDIO OUTPUT IMPED. OF 600 OHMS. TRANSMITTER OUTPUT IS 0.9 WATTS WITH A NORMAL RANGE OF ABOUT FIVE MILES. MICROPHONE INPUT IMPED. 150 OHMS.

BOTH RECEIVER AND TRANSMITTER SECTIONS ARE CONTINUOUSLY TUNEABLE. WITH CONTROLS FOR VOLUME, TUNING, SQUELCH, POINTER ADJUST AND DIAL LOCK. CONNECTOR FOR EXTERNAL SPEAKER. WITH TUBES 9/5076, 2/5072, 3/5076, 1A2A AND 5A6. POWER REQUIRED: 135 VDC, 67 VDC AND 18 VDC. LESS BATTERY CASE, ACCESSORIES LISTED ELSEWHERE. SIZE: 9x13x11; wt: 9 LBS.

RT-176/PRC-10 USED \$29.50

RT-174/PRC-8, SAME AS PRC-10 EXCEPT 20.0 to 27.9 MHz. USED-COMPLETE, NOT CHECKED, \$30.

RT-175/PRC-9, SAME AS PRC-10, EXCEPT 27.0 to 38.9 MHz. USED, COMPLETE, NOT CHECKED, \$35.

AM-598 AMPLIFIER-POWER SUPPLY, USED WITH PRC-8, -9, -10 WHICH PLUGS INTO TOP. FUNCTIONS AS AN AUDIO AMPLIFIER AND ALLOWS FOR 24 VDC OPERATION FOR THESE TRANSCIVERS. WITH TUBES 2/2656, 2/2AT7, 2625 AND 0C3. 11x11x14; 38 LBS. SH. USED, \$24.95

ACCESSORIES

CY-744/PRC BATTERY CASE 1/PRC-6-9-10, \$6.00

AT-572A Shockproof antenna base, unused \$2

AT-271/PRC 7-section 8' whip antenna \$4.95

AS-139 RUBBER BASE 1/AT-671 (PRC-8-9-10) \$3

AD-591 TUBER BASE 1/AT-671 (PRC-25-77), \$4

AM-598 SHOCKMOUNT \$5

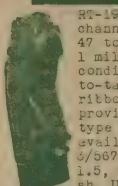
M-89 MIC W/U-77, \$4. M-81 MIC W/U-329 \$3

HANDSETS, H-33 W/U-77, H-189 W/U3229 \$12

LS-166/U LOUDSPEAKER W/U-77..... Used \$20.95

GRC/VRC CONNECTORS, specify type and with what equipment used, \$3 each w/set purchase. PLUGS, used: U3-77, metal back \$3. U3-229 \$4. CY-1211 CONN. ASSY. R/RT66-7-8 to PF112, \$6. Connector assy. sold only with set purchase.

PRC-9 WALKIE-TALKIE



RT-190/PRC-9 FM TRANSCIVER, single channel crystal-controlled in the 47 to 55.4 Mhz range. Range: approx. 1 mile depending on terrain and conditions. Handheld unit has push-to-talk switch, volume control, ribbon antenna, carrying strap, and provision for H-33/PT handset. Uses type CR-23 crystal (not included or available). With tubes 4/5076, 3B4, 3/5072, 2/5076, and 2221. Requires 1.5, 45, and 90 VDC. 15x5x4, 6 lbs sh. Used, \$18.95; MANUAL, \$7.50

CY-902/PRC-6 CASE, spare and padding for 42 crystals; 6x10x1, 2 lbs. Used, \$3.00

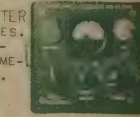
ID-492/PRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-190 and indicates relative level voltages for 4 filament, osc. injection, limiter, discriminator output, and 4-4 grid. Also 4-4 current and calibration adjust. Unit is basic VTVM with 11" sq. PS-500 u-meter and 5076 tube. Power from set under test. ID-492, unused w/manual, spare 5076, \$22.95

GRC/PRC BATTERY TEST

AN/PSW-13 BATTERY TEST SET; DESIGNED TO CHECK GRC AND PRC-TYPE BATTERY PACKS INCLUDING BA-270, -279, -376, -377, -366/PRC-25, -398/PRC-25, -399, and -505. METER INDICATES BA-6000 (FS) MA. WITH ADAPTERS U-240, -241, -242, -314, -315, -346 AND CANVAS CASE. SHIP. WT: 7 LBS. PRICE: USED, EXCELLENT, \$24.95



ME-61/GRC FIELD STRENGTH METER 1.4 to 24 MHz in THREE RANGES. WITH VARIABLE TUNING, SENSITIVITY CONTROL, 12" SQUARE METER, PHONE JACK AND ANTENNA. SIZE: 5x5x4; wt: 5 LBS. USED, \$24.95



RT-70 RECEIVER-TRANSMITTER 47 to 55.4 Mhz FM VOICE COMMUNICATIONS.

FEATURES CONTINUOUS TUNING OR TWO PRE-SET CHANNELS AND PUSH-TO-TALK TRANSMISSION. THE RECEIVER CIRCUIT IS THE DUAL CONVERSION TYPE WITH THE 1ST IF 4.3 MHz AND THE 2ND IF 1.4 MHz. WITH VARIABLE SQUELCH CONTROL. 600 OHM AUDIO OUTPUT IMPEDANCE. THE TRANSMITTER CIRCUIT HAS A 500 MW OUTPUT AND AN AUDIO INPUT IMPED. OF 150 OHMS. POWER REQUIRED: 90 VDC @ 80 MA, 6.3 @ 360 MA AND 6.3 @ 160 MA. WITH TUBES 6/114, 3/114, 2/1R5, 155, 1A2A, 4/3C4, 3A5, and 3B4. RELATED ACCESSORY EQUIPMENT LISTED ELSEWHERE. SIZE: 4x13x8; wt: 20 LBS. USED \$25.00



AN-65/GRC AUDIO FREQUENCY AMPLIFIER; THREE CHANNEL AUDIO FREQ. AMPLIFIER USED FOR INTERPHONE AND MONITORING OF VARIOUS TYPE GRC REC-TRANS. POWER REQUIRED: 135 VDC @ 35 MA AND 6, 12 or 24 VDC. SIZE: 4x13x8; wt: 17 LBS. USED \$14.95

PF-492/PRC 24 VDC POWER SUPPLY used AM-65 and RT-70. Plugs into AM-65 and the voltages for both AM-65 and RT-70. 4x6x3, 6 lbs. Used \$5. ** ** ** PF-261/PRC VIBRATOR POWER SUPPLY, same as above but requires 12 VDC input. Used \$14.95

when the RT-70, AM-65 and PF-261 are used for \$35.00

CON. IN. WITH OFFER with PF-261 is VDC supply instead of PF-492 24 VDC supply, \$49.50

TECH. MANUALS WITH SCHEMATICS FOR:

RT-150/PRC-6... \$7.50

PRC-9A-10A... \$7.50

RT-66, 67 & 68... \$5.00

RT-70... \$5.00

RT-108, 109 & 110... \$7.50

AN/VRC 13-15 or AN/VRC 16-18, CONTAIN INFO & SCHEMATICS FOR RT-66, 67, 68, RT-108, 109, 110, PF-109, 112, VAR. MFG. CONTROL BOX ES. \$7.50

**HIGH
BAND**

FM — TRANSMITTER — RECEIVERS

**LOW
BAND**

R-394/U RECEIVER, 152-172 Mhz FM single channel crystal-controlled. Dual conversion unit has first IF 7.8 Mhz and 455 KHz second IF; also squelch and muting circuits. 8 ohms output impedance. Set features modular construction with plug-in units 1st IF amp, local oscillator, 1st IF amp, 2nd IF and discriminator, and audio/squelch. 455 KHz selective filter is wired in. Also has compartment for modular power supply which is listed elsewhere on this page. Includes tubes 14/5678, 1/1A4, 5672, 5640, 5793, and 6AK5. 8 1/2"x14 1/2" 22 lbs sh. Used, \$14.95; Gov't record, \$22.50

R-257 RECEIVER, same as R-394 except covers 25 to 50 Mhz FM, used, \$14.95

T-278/U TRANSMITTER F.M. 152 to 174 MC APPROX. 30 WATTS, CRYSTAL CONTROL ON ANY TWO (2) PRESET FREQ. PHASE SHIFT MODULATION 15 KC DEVIATION, CR-27/U CRYSTAL UNIT FREQ. RANGE 4750-5437.5 KC. MULTIPLIED 32 TIMES, WITH TUBES 2/384, 3/2E24, 4/5678, 2/5672 AND 2/1A4.

VOLTAGES REQUIRED AS SHOWN WITH DY-93 DYNAMO TCR ELSEWHERE ON THIS PAGE. USED \$18.95
Size: 8 1/2"x4 1/2"x1 1/2"; WT: 12 LBS. UNUSED \$24.95

T-278 TRANS. LESS TUBES AND CRYSTAL OVEN \$6



CY-938 ELECTRICAL EQUIPMENT CABINET, used to house receivers R-394 or R-257, transmitters T-208 or T-278, and power supplies DY-93 or DY-98 or DY-100 for the transmitters. Size: 17 1/2"x14 1/2"x25, 40 lbs sh wt. Price: Used, \$9.95

CHASSIS CONNECTORS TO FIT R-394, R-257, T-416 T-278, T-208 & SUPPLIES
TRANSMITTER PLUG P-401 CHASSIS CONNECTOR NO'S J-801, CANNON# DPD-A32C2-33S-2L \$2.50
RECEIVER PLUG R-252: CHASSIS CONNECTOR NO'S J-803, CANNON# DPD-A31C1-33S-2L \$2.50
POWER SUPPLY PLUG P-1203, CHASSIS CONNECTOR NO'S J-802, CANNON# DPD-30-33S-22 \$2.50
UG-77 MOLDED PLUG ON 4 1/2 foot cord, \$1.00
H-33/PT HANDSET ON 4 1/2 foot cord w/UG-77, \$6.95

RF MONITOR

ID-642/FSA RADIO FREQUENCY MONITOR, USES DIRECTIONAL COUPLER WITH 1N-21B DIODE TO MONITOR RF

VOLTAGE LEVEL. DC VOLTAGE IS APPLIED TO TRIGGER A 24 VDC RELAY (6.5 MA 4PST) OVER A POWER SCALE OF 25-200. UNIT WAS PROBABLY CALIBRATED INTO A STANDARD LOAD. REQUIRES HN CONNECTORS. WITH TUBES: 2/0A2, 5751, 5670 6X4, AND TJ791K01-CURRENT REGULATOR. POWER REQUIRED: 115 VAC 60 HZ. SIZE: 11x9x10 1/2; SHPG. WT: 20 LBS. UNUSED, W/SCHEMATIC, \$7.95

BC-604 F.M. TRANSMITTER 30 W. FREQ. RANGE 20-27.9 Mhz. 10 PRE-SET CRYSTAL CONTROL CHANNELS ARE POSSIBLE WITH THE PROPER CRYSTALS. WITH TUBES 4/1619 AND 1/1624. VOLTAGE REQ. 12 OR 24 VDC & 625VDC @ 225MA. SIZE: 18x11x10 1/2; 60 LBS. PRICE: Unused, \$25.00

TELEGRAPH-TELEPHONE SIGNAL CONVERTER: CONVERTS 20 CPS RINGING SIGNALS TO 1225/1600 CPS RINGING SIGNALS AND CON- VERTS 1225/1600 CPS RINGING TO 20 CPS. RINGING. POWER REQ: 115V 60HZ W/2EA. 12AU7, 12AX7, 6AL5, 6X4 SIZE: 11x7x10 1/2; 18 LBS. TA-182 USED \$25.00



R-257 OR R-394 RECEIVER CHASSIS ONLY LESS ALL PLUG-IN UNITS AND FILTERS, WITH CONNECTORS & COVER. SHPG. WT: 10 LBS. USED \$4.95

R-257 OR R-394 RECEIVER PLUG-IN UNITS ONLY

MX-1547 RECEIVER RELAY SUBASSEMBLY \$4.95

1ST R.F. AMPL. W/TUBES 1/5840, 2/1A4 \$3.95

LOCAL OSCILLATOR W/TUBES 2/1A4, 1/5678 \$4.95

1/VR31-5783 & CRYSTAL. (NO CRYSTAL CHOICE)

2ND I.F. AND DISCRIMINATOR W/ TUBES 5678 \$3.95

1ST I.F. 7.8 MC. W/TUBES 3/5678 & CRYST \$4.95

AUDIO & SQUELCH W/TUBES 3/5678, 1/5672 AND 1/6AK5 \$3.95

SELECTIVE FILTER 455 KC. (NOT SHOWN) \$2.95



VIBRATOR TYPE POWER SUPPLIES FOR USE WITH R-394 & R-257 RECEIVERS. THE OUTPUT OF THE SUPPLIES ARE THE SAME AND ARE

155 VOLTS DC @ 15 MA.	
150 " " @ 5 " "	
140 " " @ 50 " "	
-40 " " @ .5 " "	
6.3 " " @ .45 AMPS.	
6.3 " " @ 1.0 " "	
1.4 " " @ 1.25 " "	

PP-867/U 24 VOLTS DC @ 1.1 AMPS USED \$4.95

PP-868/U 12 " " @ 2.0 " " 9.95

PP-869/U 6 " " @ 3.7 " " WRITE AS TO

PP-846/U 115/230 V 60 CYC 2 AMPS AVAILABILITY.

PP-604 115/230V. 60 CYCLE AC POWER SUPPLY

FOR T-417, T-208 AND T-278 TRANSMITTERS.

WRITE AS TO AVAILABILITY AND PRICE

C-844/U CONTROL UNIT FOR OPERATION OF RADIO

SET FROM REMOTE POINT. USED \$14.95

C-847 RADIO CONTROL BOX; USED TO CONTROL THE SYSTEM, HAS HEAVY ALNICO MAGNET 4" SPEAKER FOR MONITORING REC. CONTROLS FOR SQUELCH, VOLUME ON/OFF SW. PILOT LIGHTS AND RECEPTACLE FOR H-33 HANDSET WHICH HAS UG-77 SIZE: 9 1/2"x5 1/2"x3 1/2; WT: 6 LBS. USED \$8.95
H-33/PT HANDSET WITH CORD & UG-77 \$6.95

DY-93 DYNAMOTOR POWER SUPPLY INPUT: 12 VDC 20 AMPS. OUTPUT: 380 VDC @ 180 MA. 225 VDC @ 45 MA. -25 VDC @ 5 MA. USED WITH T-208 & T-278 TRANS. SIZE: 8 1/2"x14 1/2; WT: 27 LBS. PRICE: USED \$9.95

TRC-77 TRANSMITTER

RT-654A/TRC-77 BACKPACK TRANSMITTER covering 3 to 8 Mhz in six preset channels. Receives AM or CW; transmits CW only. Output: 10-14 watts, 300 wpm max-keying. Transistorized except for 2E24 P-A tube. Has RFQ, key jack, and connector 1/UG-229. Designed for use with BB-447 niod (not available). Requires 12 VDC 3.75 amps. 4 1/2"x10 1/2, 15 lbs sh. Used, repairable, \$75.00 MANUAL, partial repro, \$10 w/set.

PRC POWER SUPPLY

PP-351 POWER SUPPLY, DESIGNED TO PROVIDE REGULATED DC POWER FOR TESTING PRC-6, -8, -9, -10; SCR-510, -610; AND BC-1000 MANPACK TRANSCEIVERS. HAS METERING FOR EACH OF FIVE VARIABLE OUTPUTS. INPUT/OUTPUT CABLES NOT AVAILABLE. POWER REQUIRED: 115/230 VAC 50-60 HZ. 25x11x14 1/2; 150 LBS. SH. USED, \$45.00

C-846 RADIO CONTROL

C-846/R RADIO CONTROL, used with R-394-257 receivers and T-208-278-417 transmitters. Contains three tube microphone amp with line level meter which allows the signal to be adjusted to modulate the transmitter. Also has heavy duty 4" speaker for monitoring a receiver and tone generator for signaling purposes. Controls for intercom, mic level, and speaker volume and UG-77 plug. 600 ohm input impedance. Unit includes PP-846 AC power supply which mounts inside. Requires 115/230 VAC 50-60 HZ. 8 1/2"x13 1/2"x13 1/2; 40 lbs sh wt. Used, \$44.50; schematic, \$2.00

PP-804 POWER SUPPLY

PP-804 AC POWER SUPPLY, designed to power T-208-278-417 transmitters from 115/230 VAC 50-60 HZ input. Output: 500 VDC 250 ma, 225 VDC 45 ma, 1.25 VDC 1 amp, 1.25 VDC 3 amps, -25 VDC 5 ma, 6 VDC 300 ma, 6 VAC 900 ma, and 6 VAC 2.1 amps. 8 1/2"x14 1/2; 46 lbs sh. Used, \$40.00; Manual, partial repro \$8.50 Schematic only, \$2. Mating connector, \$2.50

ANVS-3 NIGHT VISION

AN/PVS-3 MINIATURIZED STARLIGHT SCOPE ASSEMBLY, night vision device originally used for weapon sighting but probably adaptable for other uses. Assemblies consist of front optics, intensifier tube housing, and weapon's mount for M-16 rifle with adapter bar. Units designed to use mil-8858 image intensifier tube (current Varo #1462-series priced over \$1800.00) which magnified existing light 40,000 times and had automatic brightness feature. Useful: cathode diameter 18 mm. Required 2.65 VDC supplied from BA-1533 battery (not available). Sets are sold less intensifier tube and rear ocular sighting piece; adjustments may be required. Size: 2 1/2" dia X 11" housing; 6" high with mount. Used, as above with case, \$165.00 Marginal light filter, for daytime low-light use, \$12.00 when purchased with assembly.

CX-2371 CABLE ASSEMBLY USED FOR CONNECTING R-394-257 REC. T-208-278, 416, 417 TRANS. TO THE VARIOUS CABINETS SO THE UNITS CAN BE SERVICED OUTSIDE THE CABINETS.

CX-2341 CABLE FOR CONNECTING CONTROL BOX TO CABINET. NO PLUGS ON CABLE. 5 FOOT LENGTH \$5. MAXIMUM LENGTH 15'

PP-638/U POWER SUPPLY USED WITH AM-494 & AM-495 POWER AMPLIFIERS. INPUT 115/230 VOLTS 50/60 CYCLE, OUTPUT 1100 VDC 3320 MA, 230 VDC @ 60 MA AND 6.3 VAC @ 5.2 A. 2 1/2" RUGGEDIZED METERS 50 MADC 500 MADC AND 1.5 KVDC ALSO BLOWER FOR COOLING. UPPER COMPARTMENT SIZE 15W 9 1/2" H X 8 1/2" D. SIZE: 3 1/2" X 20 1/2" X 24 1/2; WT: 150 LBS. PRICE: RE-NEW \$100.00

THE SPEAKER

LS-166/U LOUDSPEAKER, housed in cast-aluminum case, speaker is 4" dia. with heavy-duty FM magnet, 600 ohm matching transformer with 8 ohm output and HI-LO switch, 6 foot cord with UG-77 connector. Unit is used with most GRC/VRC radio sets. 5x5x3 1/2, 5 lbs. Used, \$10.95

LS-454 SPEAKERS, similar to LS-166 except with UG-229 plug for use with VRC-12 type equipment. Used, \$14.00
FT-250 MOUNT RACK for BC-620-659: 18 lbs. Unused \$20.

RECEIVER POWER SUPPLIES w/ SPEAKER for 115 VAC 60 Hz
Operation of the following
BO-453-454-455-946
R-23-24-25-26-27/ABC-5
R-10-11-12-13-22 ABC-type
BO-448 BO-639 R-174/RRR

Includes dynamic speaker housed in metal cabinet with connecting cable, phone jack, volume control, SFC switch (if applicable). Output: 200/250 VDC 90/60 ma and 24 VAC 2 amps; usable with other receivers having similar requirements. Dimensions and parts vary with availability of materials. SPECIFY receiver type; 10 lbs. KIT, \$32. WIRED, \$40.

DC POWER SUPPLIES from 115 VAC 60 Hz input; our construction: KIT WIRED
#24VDC2A, 24 VDC 2 amps, 12 lb \$17 \$22.95
#24VDC4A, 24 VDC 4 amps, 14 lb \$20 \$25.95

TEN THOUSAND VOLT DC to DC power supplies, p/c Sanders video display. Requires 10-15 VDC 1 amp 5-7 KHz square wave at TTL levels to drive the output amplifier.
MODEL 13904 uses 2/2N3055 xistors or equal. MODEL 11665 uses one 70-3 xistor. No schematic. 10x5x6, 5 lbs.
#13904 \$9.95 #11665 \$7.95

PE-110 POWER SUPPLY for BC-669 TRANSMITTER-RECEIVER. INPUT 115 VOLT 60 CYC. OUTPUT 520 VDC @ 420 MA. A 12 VDC VIBRATOR TYPE POWER PACK WITH AN OUT PUT OF 275 VDC @ 64 MA THAT PLUGS INTO THE CHASSIS SERVES AS A RECEIVER STANDBY. INCL. FOUR 523 TUBES, RESET CIRCUIT BREAKERS, A.C. OUTLETS, AND SUFFIX LETTER, TUBE COMPLEMENT AND SIZE MAY VARY. 20x9x12; 75 LBS. USED REPAIRABLE \$25

LENKURT MODEL 5047A POWER SUPPLY, INPUT: 115 VAC 60 HZ. OUTPUT: 24 VCT, 10 AMPS AC AND 160V. 150 MA DC. CONSTRUCTED ON AN ALL-ALUMINUM CHASSIS WITH VENTILATED ALUMINUM COVER WITH FLIP-LOCKS. (NOT SHOWN) SIZE: 19x7x10 1/2 WT: 45 LBS. \$19.95

GILBERT AMERICAN FLYER TOY TRANS-FORMER, INPUT: 120 VAC 60 HZ. OUTPUT: 7 to 18 volts AC. CONTROL READS 0 TO 120 MPH. WITH 20 HOME AND 30 TRIP GIVING 60 MPH. SIZE: 3 1/2x2 1/2x1 1/2 WT: 6 LBS. GILBERT \$2.99 USED, \$3.95

FGC-29/1660 POWER SUPPLY INPUT 115/230 VOLT 50/60 HZ OUTPUT: 225 VDC 100 MA. 6.3 VCT 4A. 6.3 V 1.5 A. INCL. FIL. 2/2021 TUBES 11x5x4 1/2; 23 LBS. REM \$15

FGC-29/164C POWER SUPPLY: INPUT: 115/230 V. 50/60 HZ. OUTPUT: 40 VDC 30MA or 35VDC 40MA 6.3V 1.4A INCL. FILAMENT 6X4. 5x3x2 1/2; 8 LBS. REMOVED \$10

SOLA CONSTANT VOLTAGE DC POWER SUPPLIES; 19" x 6" 40 lbs. sh wt. \$14.95

SOLA #	INPUT	OUTPUT
28238	180/240 200/260	200 VDC 1.5 A
28239		120 VDC 1.1 A
28232	115/206/230	20 VDC 2.0 A
28266	115/206/230	20 VDC 4.0 A

#237 CONSTANT VOLTAGE TRANSFORMER, 6.5 V 25 amp output from 90-130 VAC 60 HZ input, \$15.

VERY HIGH VOLTAGE
DC POWER SUPPLY with 107-125 VAC 60 HZ PRIMARY. TWO OUTPUTS: -5.4 to 5.75 Kv. @ 140 to 300 u-A. ONE OUTPUT: -5.1 to 5.3 Kv. @ 100 to 270 u-A. SIZE: 12x2x4 1/2 WT: 10 LBS. GE #9T63Y2029G6, USED, \$10.95

COMPUTER POWER SUPPLIES

SOLID STATE POWER SUPPLIES rated conservatively and constructed on rugged steel frames. Units have front voltage adjust +10% running light, AC reset. Also adjustable current limiting and overvoltage protection. Power input: 115 VAC 60 HZ. Removed from equipment.

Add \$10.00 to prices for "checked" units.

RATING	SIZE	Sh wt.	No.	PRICE
4 V 30 A	13x7x15 1/2	65 lbs	928	\$30.00
4 V 75 A	19x7x20	125 lbs	850	\$40.00
12 V 5 A	9x7x16	35 lbs	655	\$7.00
12 V 15 A	13x7x15 1/2	60 lbs	654	70.00
20-24 V 5.5 A	9x7x20	47 lbs	332	39.95
24 V 12.5 A	13x7x15 1/2	65 lbs	4291	30.00

(#4291 is harmonic regulated type)
30 V 3 A 15x7x19 1/2 36 lbs 889 27.50
32-36 V 4.8 A 9x7x19 1/2 37 lbs 3236-48 27.50
(#3236-48 includes 12-36 V conversion info)

DUAL POWER SUPPLY, same style as above, -32-36 V 14.7 A and -32-36 V 10.3 A; two independent regulators w/ common bus, 20x12x12, 125 lbs sh. #450, \$60.00

CASH REGISTER POWER SUPPLY WITH 6 VDC GEL-CELL BATTERY OUTPUT FOR MEMORY. ALSO +6, +10, +15, and -24 VDC FROM 115 VAC INPUT. 8x8x7 1/2; 22 LBS. SH. ORIGIN ELEC. #008-0202550A, UNUSED, \$45.00

OPEN FRAME REGULATED

COMPUTER POWER SUPPLY TRANSISTOR REGULATED OPEN CONSTRUCTION WITH ADJUSTABLE VOLTAGE 20% AND CURRENT LIMITING. UNITS WHICH CVP 13 NOTED ALSO HAVE ADJUSTABLE OVERVOLTAGE PROTECTION. UNITS ARE IN GOOD CONDITION-REPAIRABLE. ORDER BY RATING AND PART NUMBER.

RATING	SIZE	Sh WT.	No.	PRICE
5v 2A	14x4x5	16	1012-01	\$10.95
5v 4A	"	16	1014-33	14.95
8v 4A OVP	"	16	1014-21	14.00
12v 3A OVP	"	16	1014-22	25.00
12v 6A	14x8x5	23	1018-33	37.00
12v 6A OVP	"	23	1018-22	37.00
30v 3A	"	23	1018-23	22.50
30v 3A OVP	"	23	1018-33	25.00
35-40v 500W OVP	14x8x5 1/2	60 lb.	1037-12	\$35

F3601301 TRANSISTOR REGULATED POWER SUPPLY produces independent +12 VDC 2.7 A. and -12 VDC 1 A. outputs w/ overvoltage protection which can be used in series. Also -6.8 V 300 ma output. 9x5x7 1/2; 16 lbs. Used, \$14.95
Schematic for 115/230 V operation included.

SCOPE POWER SUPPLY

HFE CRT POWER SUPPLY; HAS 6.5 KV LOW CURRENT OUTPUT WHEN USED WITH 10 VDC 1.75 AMPS DC-TO-DC INPUT CONVERTER. WILL PRODUCE 7.5 KV FROM 12 VDC INPUT. OTHER LOW CURRENT OUTPUTS OF -2500 and -1500 VDC. TRANSISTORIZED WITH COVER AND CONNECTORS. 11x6x5 1/2, 10 LBS. USED, EXC., \$15.95
HFE LOW VOLTAGE POWER SUPPLY; Output: 10 VDC 1.75 AMPS, ADJUSTABLE -1 V. INPUT: 115 VAC 60 HZ. TRANSISTORIZED WITH FUSE AND CONNECTOR. 10x6x4 1/2; 12 LBS. REMOVED F/EQUIP., \$7.95
HFE CRT AND LV POWER SUPPLIES AS SET, \$20.00

BREAKER 12x1 VDC 2.5 AMP POWER SUPPLY; 4 AMP SURGE, 4 AMP CIRCUIT BREAKER, 4-5/8x2 1/2x6 1/2; SHPG. WT: 6 LBS. #13-110, NEW, \$20.

MULTIVOLTAGE POWER SUPPLY; HAS REGULATED OUTPUTS: +12 VDC 500 MA, -12 VDC 500 MA, and 24 VDC 500 MA. ALSO 7 VDC 10 AMP UN-REGULATED, INTERMITTENT. REG. VOLTAGES ADJUSTABLE OVER SMALL RANGE. INPUT: 115 VAC 60 HZ; 9x5x6, 13 LBS. #1K32605, \$25.

UNUSUAL TUBES for collectors and experimenters. Filaments checked but not guaranteed.

JAN 218 RECTIFIER TUBE, 1/2 wave high vacuum; jumbo 3-pin base. 15x"Hx5" dia \$10.
MATCHLESS ML-500 HV TUBE, 15x"H x 5" dia. \$12.00
JAN 705A RECTIFIER, 4-pin base. 5"H x 2 1/2" dia. \$5.
JAN 715B PULSE AMP TETRODE 4-pin base, similar shape as 705A; 5x"Hx2 1/2" dia. \$6.
WESTINGHOUSE CL-2 TUBE WITH IN-A-TUBE, 12x"Hx2" dia \$7.

TAYLOR TZ-20 zero-bias Class B audio, 20 W plate diss; 70 W air push-pull. 7.5 V fil, 4-pin base. Old--Unused w/data \$4.

MAGNETRONS

MAGNETRON TUBES LESS EXTERNAL MAGNETICS. USED, \$24 EA. SPECIFY:
J2J26 (2992-3019 Mhz); J2J28 (2939-2965 Mhz); J2J29 (2914-2939 Mhz); J2J39 (3267-3333 Mhz); J2J61 (2992-3100 Mhz); J2J62 (2914-3019 Mhz); J2J5A (USED IN APS-4 RADAR).

S-300 TUBE (OPEN FILAMENT), 10" LG. 3" DIA. A3-1S, \$4.

600 MHZ TRANSMITTING TUBE 8012-A TRIODE
DIRECT WIRE FILAMENT: 6.3 V, 1.92 AMPS. MAX. PLATE: 1000 V. 80 MA. 40 W CAP: G-F 2.7; P-F 0.4; G-P 2.5 MJ 18; GRID CURRENT 20 MA
CLASS "CH" TELEGRAPHY 35 W TELEPHONY 20 W
W/DATA, UNUSED, \$2.00 EA. 4 FOR \$6.

8025 TRIODE, same as 8012 but 4-pin base, \$3.

ELECTRONIC PHOTO-FLASH TUBE R4330C SYLVANIA, OPERATING VOLTAGE 2250, 6 FLASHES PER MIN 100 WATT-SEC/FLASH MAXIMUM, PEAK LIGHT OUTPUT 12,000,000 LUMENS, INTEGRATED LIGHT OUTPUT 3500 LUMEN SEC. FLASH. \$10 OCTAL CER.SOC. 506

FIELD TELEPHONES

EE-8 FIELD TELEPHONE, PORTABLE HAND-RINGING MAGNETO TYPE UNIT. OPERATES FROM TWO "D" CELL BATTERIES (NOT INCL.). TWO OR MORE CAN BE USED IN A TWO WIRE SYSTEM UP TO 17 MILES IN LENGTH. WITH CARRYING CASE AND STRAP. 8x10x3 1/2; 18 LBS. USED, CHKD, \$50.

TP-3 FIELD TELEPHONE, PORTABLE, SAME AS EE-8 EXCEPT THIS UNIT DOES NOT REQUIRE FLASHLIGHT BATTERIES BECAUSE IT USES A SOUND POWERED HANDSET. SIZE: 8x10x4; 18 LBS. USED CHKD \$55

H-102 TELEPHONE HANDESET & SIGNALING UNIT FOR COMMUNICATIONS WHERE VOLTAGE IS AVAILABLE FOR OPERATING THE HANDESET AND THE UNIT'S RINGING CIRCUIT. REQUIRES 3 & 6 VDC. SIMILAR TO EE-8. 8x10x4; 15 LBS. USED, CHECKED, \$30.

12 VDC 4 AMP SUPPLIES

STACO SOLID-STATE 4 AMP DC POWER SUPPLIES-NEW-*****
#F33-4, filtered 12 V; 5x5x5 1/2, 5 lbs sh. \$12.95 2/\$22.
#RPS-4, filtered and regulated 13.8 VDC; 5x5x6 1/2, 7 lbs sh wt. \$18.95 ea. 2/\$35.00

12 VDC 3.5 AMPS and 4 VDC 17.5 AMPS from 115 VAC 60 HZ input; has current limiting and overvoltage protection. 4 V output adjusts to 5 V; 14x8x6, 35 lbs sh. #56660, \$30.00

#9566-10, same as above power supply with less regulator cards. Has output transistors and heatinks; nice foundation, \$20.

230 VDC TRANSISTORIZED POWER SUPPLY, 115 VAC 60 HZ input. Units marked "200 VDC" but they test at 240 VDC 300 mA. 5x4x5, 15 lbs. #3930, NEW, \$22

225-399.9 MHZ RECEIVER



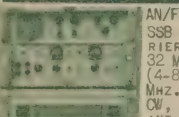
equalizer, and 44 tubes; unitized chassis, rackmount. 124x19x20, 115 lbs sh wt. Used, less gear channel, repairable, \$150.00. MANUAL, partial repro, \$15. Schematic, \$2.50

R-648/ARR-41 RECEIVER

R-648/ARR-41 RECEIVER

190-550 KHz and 2-25 KHz AM-CW in five bands. Mechanical digital-type tuning in 1 KHz steps. 500 KHz final IF; mechanical filters 1.4 and 6.0 KHz. Controls for BFO, sensitivity, broad-sharp voice or CW, and dial lock. With tubes 2/5736, 7/5749, 2/5750, 2/5814, 5654, 5686, 6AU6, and 6A2. Requires 24 VDC 4 amps input for dynamotor. 7x16x13, 35 lbs sh. Used, repairable, \$145.00; Checked, \$205.00. MANUAL, partial repro, \$15. Schematic, \$2.50. Power input connector, \$3.00 w/set purchase.

2-32 MHZ SSB RECEIVER



AM/FRR-59A TRIPLE CONVERSION SSB RECEIVER WITH FULL CARRIER SUPPRESSION FROM 2 TO 32 MHZ IN FOUR BANDS: (2-4) (4-8), (8-16), and (16-32) MHZ. RECEIVES LSB, USB, AM, CW, AND MCW SIGNALS; LSB AND USB RECEPTION POSSIBLE SIMULTANEOUSLY OR SEPARATELY. INCREMENTAL OR CONTINUOUS DIGITAL TUNING IN 0.5 KHz STEPS. INTERMEDIATE FREQUENCIES (IF): 1625-1725 KHz, 220 KHz, AND 80 KHz. BUILT-IN 1 MHZ CRYSTAL CALIBRATOR. AF LINE OUTPUT: 60 MW INTO 600 OHMS (MIN.); PHONE OUTPUT: 15 MW INTO 600 OHMS (MAX.). RECOMMENDED ANTENNA TERMINAL IMPEDANCE: 50 OHMS. USES 7- AND 9-PIN 6.3 V. glass tubes. Requires 105-125 VAC 50/60 Hz; 254x22x24, 300 lbs sh. Connectors to make interconnect cables and partial repro of manual included. Used-not checked, \$250.00

AM-777 AMPLIFIER-DETECT-OR

Part of RT-128A ARC-21 (2-24 MHz) TRANSMITTER. 1ST IF-1800 KHz; 2ND IF-300 KHz. RECEIVES 1800 KHz SIGNAL INPUT AND 500 KHz INPUT FOR MIXER AND TRIPLEX STAGES. SLUG-TUNE ADJUSTMENT. WITH TUBES 4/5636, 3/5896, 3/5899, 3/6021, 5840, 5902, AND 5719. SCHEMATIC INCLD. 132x23x3, 5 LBS. SH. \$10.00

1700-2400 MHZ RECEIVER

R-418/TRC-29 MICROWAVE RECEIVER WITH PP-690 AC POWER SUPPLY. FREQUENCY RANGE: 1700-2400 MHZ FM UTILIZING 27 PRESET CHANNELS. IF=120 MHZ; VIDEO OUTPUT: 30 KHz to 4.5 MHZ. -3 to +7 dBm. 158-500 MV-RMS, NOISE FIGURE: 14-16 DBM. 50 OHM ANTENNA INPUT. HAS TWO METERS FOR CIRCUIT TEST AND ALIGNMENT PROCEDURES. RECEIVER USES 6BM6 KLYSTRON OSCILLATOR AND 28 OTHER TUBES. POWER SUPPLY HAS 18 TUBES. POWER REQUIRED: 115 VAC 60 HZ. SIZE: 19x19x19 (R-418); 12x19x19 (PP-690). SHIP. WT: 200 LBS. UNUS. \$165.00

TWO SSB-3 OSCILLATOR, for use with TAC 2-32 MHz mixers and power amps; used, \$165.

T-282/GRC TRANSMITTER, single channel 100 W in 225-399.9 MHz range; uses 3/4X150A's. Companion to R-278/GRC; 160 lbs. Used \$125.

0.2 TO 30 MHZ SSB

G133 HF RECEI-

VER, 0.2 to 30 MHz SSB, AM, & CW in thirty continuously tunable bands. Set is a Collins 51S1 receiver repackaged by LTV-Temco for military airborne use. It has extended lower frequency range plus a jack for a 14-600 KHz tuner, AM BFO, and extra electronic filtering. Crystal check points every 100 KHz. Final IF 500 KHz. AM BFO variable from 485 to 515 KHz. Controls for CW-LSB-USB-AM, Rejection Tuning, and meter switch RF-10DEM-ODEM. Input impedance: 50 ohms. Audio output imped: 4 or 600 ohms. Matching phone patch imped: 500-600 ohms. With tubes 5/6E6, 3/6BA6, 2/12AX7, 2/6136, 6CD6, 5670, 6BF5, and 6AK5. Requires 115/230 VAC 50-60 or 400 Hz; also 24 VDC 168 ma for the AM BFO only. 6x18x13; 40 lbs sh wt. Used, repairable, \$695.00; Checked, \$850.00. COLLINS 51S1 MANUAL, \$15 w/purchase of G133.

COLLINS 180L-3



COLLINS 180L-3 AUTOMATIC ANTENNA COUPLER, useable with transceivers in the 2-25 MHz range, 50-100 watts. Automatically resonates an antenna to a transceiver's frequency and couples the RF signal between the transceiver and antenna. Also transfers antenna to receiver or receiver section after the transmitter is unkeyed. Coupler has 7-970 pf 3 KV variable capacitor and variable ribbon 32 uH inductor; also smaller roller inductor and SWR meter circuit. Requires 28 VDC 3 amps, 250 or 400 VDC 35 ma, and 115 VAC 400 Hz 20 VA. 10x7x11, 24 lbs sh wt. Used, \$109.50; Manual, partial repro, \$10.

IS-128A/F INTERCOM STATION, consists of a three tube audio amp in metal cabinet w/speaker, Idle-Listen-Talk switch, and switching for upto 24 remote stations. Input-output impedance 50 or 500 ohms; speaker 45 ohms. Audio output: 2 1/2 watt. Includes terminal block on 5' cable and 6V6, 6X5, and 6377 tubes. 13x7x7, 23 lbs sh. Used, \$18.95; unused \$27.95. Manual \$5/set.

AIRCRAFT SIGHT



OPTICAL GUN SIGHT p/o APG-59; has 3-3/8" dia convex lens, 4" dia polarizing filter, and two coated view glasses—one 4 1/2" dia, the other 4" dia. Polarizer adjusts on scale marked VEL 25-50-100-200; 0-280 vernier scale for adjusting Plexiglas viewing screen. Also includes 3 push buttons, bubble level, and transformer marked "47 WV." Plexiglas screen chipped at edges; no further info. Looks like item for the collector or experimenter. 8x7 1/2 x 7, 15 lbs sh wt. #0FS-1900, used, \$22.95

INFRARED BEACON

UF/X99 NAN INFRARED BEACON, originally used on landing craft or on shore for clandestine signaling. System consists of gray painted brass lamp assembly with 100 watt 12 VDC bulb and 4 1/2" dia. X 4 1/2" high infrared glass dome, control box with manual signaling key (provision for automatic key), two section brass and wood 63" mast, 25' power cable, and steel spares box containing extra bulb, dome, and hardware. Infrared-sensitive optics required for detection of this beacon. Instruction book included. Stored by govt. since 1945. Re-boxed in two 27 lbs cartons. Unused \$29.95

RT-311 TRANSCIVER



RT-311/ARC-38 AM TRANSCIVER, 2.0 to 25 MHz from 20 preset channels. Frequency interval: 500 Hz (2.0-7.25 MHz) and 1000 Hz (7.25-25.0 kHz). Has autotune from channel to channel. Minimum peak output 100 watts (2-14.25 MHz), 90 watts (14.25-25 MHz). Antenna tune power: 50 watts (40 db carrier suppression. Receives AM or CW; sensitivity 5 uv for 6 db signal (phone). Selectivity: 7.5 KHz min w 6 db, 20 KHz max w 60 db or 1.8 KHz min w 6 db, 5 KHz max w 60 db when in CW sharp position. Unit has VFO and 25 tubes including three 6159's in power amp. Requires 28 VDC, 600 VDC, 250 VDC, -50 VDC, -65 VDC and 6.3 VAC. Also 115 VAC 400 Hz for selsyn on PA inductor. 15x8x23 1/2, 65 lbs sh. Used, not checked, \$85.00. MANUAL, partial repro, \$15. w/set purchase. COLLINS 618S-1 TRANSCIVER, similar to RT-311/ARC-38 but without VFO. Crystal-controlled AM receiver, \$54.50. Schematic, \$3.00. 618S-1/XC TRANSCIVER, modified for SSB by RCA, at/cr-controlled, \$99.95. Schematic, \$8.

RT-594/ARC-38A SINGLE SIDEBAND TRANSCIVER, similar to RT-311/ARC-38 except has SSB capabilities. Used, not checked, \$145.00. RT-311/ARC-38 or RT-594/ARC-38A replacement modules removed from sets. Write your needs.



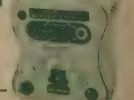
C-1398/ARC-38 CONTROL BOX for control and frequency selection of ARC-38. Twenty preset channels or manual in 500 Hz steps. With code book. Most functions operable with ARC-38A SSB set except for function switch which would have to be disabled and provision for side band reception added. 7x5x3 1/2, 14 lbs. Used, \$16.95; Schematic, \$2 if bought w/box.

AIRCRAFT TRANSCIVER



RT-544M AIRBORNE TRANSCIVER mfg. by Aircraft Radio; covers 136.00 to 149.95 MHz AM in 50 KHz crystal-controlled steps. 15 watts output. Has volume and squelch controls. Requires 24 VDC 6 amps. With tubes 8156, 2/8102, 6/6CW4, and 2/7597. Schematic not available. Size: 6x13 1/2 x 14; 10 lbs. sh. Used, no cover, \$54.95

GIABSON GIRL



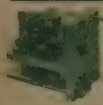
T-74/CRT-3 SEA RESCUE TRANSMITTER, famous "Giabson Girl" used in WW-II and still used by U.S. Navy; operates on distress frequencies of 500 and 8364 KHz. Powered by hand-cranked generator and automatically sends SOS signals; can also be keyed by hand with 1 KHz tone or 500 KHz. Outer case dented but otherwise complete with 43-207 antenna wire, generator, and hand crank. 10x8x10, 18 lbs. Used, \$39.50. BC-778 TRANSMITTER, identical to T-74/CRT-3 but sold less antenna wire assembly, \$29.50

MANUALS FOR T-74 or BC-778, \$7.50 each. BG-155 BAGS without lacing, used, \$16.00 ea. M315 HYDROGEN GENERATOR with either lithium or calcium hydride crystals, dented on \$10. INFLATING TUBE for use with M315, \$2.50. M308B SIGNAL LAMP, connects to xmitter and lights when transmitting; unused, \$2.50 ea.



AM-1955/GRC AMPLIFIER CONVERTER USED WITH R-1148/GRC-55 RECEIVER FOR 600-1000 MHz BAND. 17 MHz IF. Has 115 V 60 HZ MOTOR AS PART OF AFC SYSTEM. WITH TUBES 2C40A, 2/5842, 5654, 1N218, 1N21WE, 150 VDC AND 6.3 VAC REQUIRED. SIZE: 15x9x6; 30 LBS. SH. USED, \$50.00

2.0-3.0 GHZ OSCILLATOR

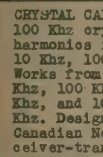


OSCILLATOR-AMPLIFIER ASSEMBLY with 7668 klystron and two 7174 tubes that were designed to be used in the 2800-3000 Mhz range. No further information available. 6x5x4, 7 lbs sh wt. Western Electric #D-150815, unused, \$18.

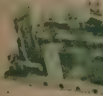


ROLLER INDUCTOR ASSEMBLY with motor drive. 3.4" long x 1.75" dia. coil; 28 turns #18 wire. Approx. 14 uHy with center tap. 115 VAC 400 Hz 20 watt motor turns the coil. Originally used to automatically resonate to an antenna to a transceiver's frequency.

O/A 4x2x3x3; 5 lbs. sh. #T301/CU-991, \$14.95



CRYSTAL CALIBRATOR, utilizes 100 KHz crystal to generate harmonics in three ranges: 10 KHz, 100 KHz, and 1000 KHz. Works from 1-30 Mhz on 1000 KHz, 100 KHz-10.5 Mhz on 100 KHz, and 10 KHz-10 Mhz on 10 KHz. Designed for use with Canadian No. 19 Mark III receiver-transmitter. Has three 12SC7 tubes; requires 12 VDC 500 ma, 265 VDC 2.5 ma. 2x9x4x4, 7 lbs sh. Used, \$12.95



TRANSISTORIZED GUARD RECEIVER f/ modified RT-178/ARC-27; replaces tube type. Designed for single guard channel in 238-248 Mhz range. 1st IF 25.1 Mhz; 2nd IF 3.45 Mhz. Has detector, noise limiter, and AVC sections; 4/2M1745 transistors and 25.1 Mhz filter. IF, RF, and audio sections are gold-washed. 8x4x4, 6 lb sh wt. #5821-953-9695, used, \$12.95

VFO - EXCITER - MOD

VFO-MASTER OSCILLATOR FROM THE T-195 TRANSMITTER; GENERATES FREQUENCY OF 1.5 TO 3 Mhz. Has 5749 OSCILLATOR TUBE AND 5749 BUFFER-AMP TUBE. WITH 2x3/16" DIA. SHAFT. 2x3x3x7, WT: 5 LBS. VFO/T-195, REMOVED F/EQUIPMENT,



\$7.95

EXCITER STAGE FROM T-195, USED TO AMPLIFY VFO OUTPUT AND SUPPLY DESIRED TRANSMITTING FREQUENCY TO POWER AMP. SLUG TUNED IN RANGES (1.5-3), (3-6), (6-12), AND (12-20) Mhz. WITH TUBES 6AU6, 2/6AK6, AND 5763. SIZE: 4x3x8, 12 LBS. EXC/T-195,



\$14.95

MODULATOR F/T-195, DESIGNED TO PROVIDE PROPER AUDIO POWER TO MODULATE POWER AMP AND SUPPLY SINEWAVE. 300 HZ AND 3500 HZ BANDPASS. W/ TUBES 5726, 2/12AT7, 5814, LESS 4X150 TUBES AND SOCKETS. 8x6x4x4, 6 LBS. \$10.95

TRANSISTOR RADIOSONDE

TRANSISTORIZED RADIOSONDE WITH CLOCKWORK TIMING MECHANISM (NO KEY); USED IN METEOROLOGICAL OBSERVATION OR SIMILAR APPLICATIONS REQUIRING AN EXTREMELY LIGHT-WEIGHT TRANSMITTER. UTILIZES A 2-TRANSISTOR MODULATOR AND A 2-TRANSISTOR TRANSMITTER CIRCUIT. TRANSMITTER HAS A 7533 INTEGRAL CAVITY TUBE WHICH FUNCTIONS AS THE TUNED CIRCUIT FOR THE OUTPUT: 1660-1700 Mhz, 575 mW (NO FURTHER DATA). WITH HUMIDITY ELEMENT. TRANSMITTER SIZE: 2x3" DIA. X 6". OVERALL SIZE: 7x4x5x8. SHPG. WT: 4 LBS. FRIZ #3002, UNUSED, \$9.95



T-69F/AMT-2 RADIOSONDE TRANSMITTER ONLY. F-2 EMIS-ION (FM) 390 TO 410 MC RANGE WITH TUBES 5703 AND 5910. REQUIRES BB-208 DRY CELL-BATTERIES (SOLD SEPARATE). SIZE: 6x5x2x2; WT: 2 LBS. \$1.50 BB-208 DRY CELL BATTERY SET WT: 1 LB. \$2.00



TCS RECEIVER



NAVY TCS RECEIVER COVERS 1.5 TO 12 Mhz AM IN THREE BANDS; CONTINUOUS TUNING OR FOUR CRYSTAL-CONTROLLED CHANNELS. AUDIO OUTPUT: 1.5 MW INTO 500 OHM LOAD. WITH TUBES 2/12A6, 12SA7, 3/12SK7, AND 12SQ7. POWER REQUIRED: 220 VDC 100 MA AND 12 VDC SIZE: 11x11x13; SHPG. WT: 42 LBS. NET: 37 LBS. PRICE: USED, REPAIRABLE, \$19.95 CHECKED, \$50.00

BALLISTICS CONTROL



SPERRY C-1 BALLISTICS CONTROL, appears to have been part of aircraft bombardier's equipment. Has controls and dials for "Time of Fall," "Trail," "Altitude," "N-3 Offset," and "E-W Offset." Also contains selsyns six AY-232, two AY-201, and two Sperry R565478. Looks like a nice aviation collectors item. 12x8x7x2, 22 lbs sh. Used, \$22.00

BENDIX TRANSMITTER

BENDIX TA-12B TRANSMITTER, 40 WATTS OUTPUT CW, MCW AND PHONE FROM 300 TO 600 KHz AND 3000 TO 7000 KHz. EACH OF THE FOUR CHANNELS HAS ITS OWN OSCILLATOR, OSC. TUNING, AND LOADING. 0-5 RF AMMETER MONITORS ANTENNA CURRENT. WITH TUBES 4/12SK7 AND 3/807. ORIGINALLY USED WITH MP-28B 24 VDC 15 AMP DYNAMOTOR-MODULATOR (NOT AVAILABLE). POWER REQUIRED: 24 VDC 3 AMPS, 260 AND 400 VDC EXTERNALLY MODULATED. SIZE: 10x15x11; WT: 40 LBS. USED, \$39.50



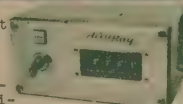
MIRRORED REFLECTOR



INFRARED NIGHT VISION REFLECTOR originally used on tanks. 23"x16" mirrored surface focuses light about 12" above center. Heat created can "smoke" wood on sunny day. 4" fall from extreme perimeters to center. Surface may have scratches. Nice experimenter's item. 12 lbs, used, \$25.

ACCURAY SWITCH DEVICE

ACCURAY DIGITAL SWITCH, has access key lock that actuates a SPDT switch connected in circuit to a lighted push button "enter" switch. Unit also has four section decimal-coded thumb switch--each section numbered 0 thru 9--and 15" input/output cable with connector. In 8x4x5 steel case with flange mount. 8 lbs shwt. #ACCU-DS, used, \$12.95



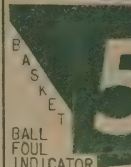
MAILORY INTRUSION ALARM, hang on inside door knob and set sensitivity. Alarm sounds when outside door knob is touched. Works on capacitance discharge. Will not work with steel doors. 2 lbs sh. NEW. #DRS-AC, loud clacker, 115 VAC 60 Hz, \$8.95 #DRS-DC, w/Sonalert, 9 V battery req., \$9.95



GRAB BOX ASSORTMENT OF USED AND UNUSED MANUFACTURERS AND GOVERNMENT SURPLUS ELECTRONIC PARTS SUCH AS ASSEMBLIES, MOTORS, COILS, TRANSFORMERS, CHOKES, CIRCUIT BOARDS, CAPACITORS, RESISTORS, AND OTHER USABLE ITEMS. PACKED IN 50 LBS. CARTONS. \$7.50 EA. OR TWO CARTONS FOR \$13.00.

SHIPPED VIA UPS WITH FREIGHT CHARGES VARYING FROM \$5 TO \$16 PER CARTON. ALLOW FOR FREIGHT. GRAB BOX IS GOOD FILLER TO TAKE ADVANTAGE OF MOTOR FREIGHT 150 LBS. MINIMUM WEIGHT RATES.

DIGITAL DISPLAY



DIGITAL DISPLAY: EACH UNIT WILL SHOW NUMBERS 0 TO 9 ALSO 3 SIGN 3-3/16" HIGH ON 3x4 SCREEN THAT CAN BE SEEN FOR QUITE A DISTANCE. OPERATES FROM 6.3 VAC. CAN BE ADAPTED FOR BASKETBALL FOUL INDICATOR BY PLACING ONE OVER EACH SCOREBOARD AND HAVE A CONTROL PANEL CONSISTING OF 5 SWITCHES AND TRANSFORMER AT THE SCORER'S TABLE. (WIRING DIAGRAM FURNISHED ON REQUEST) CAN ALSO BE ADAPTED FOR USE AS A MOVING READOUT BOARD. SIZE: 3x5x11; WT: 7 LBS. PRICES: \$3.95 EA. 3 FOR \$10.00



WBCOR TAPE RECORDER, plays and records 4 3/4 or 7 1/2 ips; accepts upto 7" dia reels. Has standard features fast forward/rewind plus edit lever, footage counter, and 20-0-20 record level indicator. Also mic, bridge, and external speaker jacks, and built-in speaker. Monaural use only; 100-10000 Hz response; 4 7/8 ips. Mic input impedance: 500K ohms. With tubes 12AU7, 12AX7, 6X4, 6BE5, 6H6, & 7025. Requires 115 VAC 60 Hz. 13x12x17, 32 lbs sh. Units checked for basic playback/record; may need further adjustments. Mic and reels not included. #WBCOR-173B, used, \$34.95 MANUAL for above, partial repro, \$8.50



AN/USM-63 BATTERY TESTER, includes TS-737 meter and MX-1678 load box. Tests ni-cad batteries with or without load and charging. Range: 1-1.7 VDC using probe; 25.2-34.1 VDC at binding posts. TS-737 (8x6x4x4) is dual range voltmeter with 2.8M load resistor. MX-1678 (14x6x5x8) has two 5.6K 300 W resistors in parallel. 18 lbs sh. USM-63, Used, \$30.00.



WPT-2 TRANSISTORIZED WIRELESS AMPLIFIER BY FANON; DESIGNED FOR USE WITH CALL-ORIGINATOR BOX (NOT AVAILABLE) AS A PAGING/INTERCOM SYSTEM WITHOUT LINES. 4 WATTS PEAK. OPERATES FROM 115 VAC 60 HZ AND MUST BE IN SAME AC CIRCUIT AS THE CALLING BOX. Usable with TWO 8 OHM SPEAKERS OR THREE OR FOUR 45 OHM ONES. MAY BE MOUNTED INDOORS OR OUT. SIZE: 4x2x8x3; SH WT: 5 LBS. UNUSED, W/INFO, 5.95

ANTI-JAMMING TRAINERS

AM/ULT-T2 (15X12) X-BAND INTERFERENCE TRAINER, a low power transmitter in the 8500-9500 Mhz range designed to train radar operators in anti-jamming techniques. Unit can be manually tuned and modulated by a sine or square wave, pulse, noise, or modulation from an external source. Has controls for CW, 5-16 Mhz/sec sweep, 250-500 -1100 KHz sweep sector, percent modulation, and pulse width 1-5 sec. Frequency modulation 15 Hz-15 KHz variable and fixed 50 or 100 KHz. Audio output impedance 500 ohms. Designed to be used within 50 feet of radar. Uses 2K45 klystron. Requires 115 VAC 50-400 Hz; with antenna-born and transit case. 15x12x19, 110 lbs sh wt. Used, \$99.50 \$80.

AN/ULT-T4 (15X18) INTERFERENCE TRAINER, similar to ULT-T2 except covers L-Band (1220-1350 Mhz) and uses 2C36 klystron. With antenna horn and transit case. 17x23x18, 100 lbs sh. Used, \$105.00 \$85.

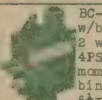
MANUALS for ULT-T2 or ULT-T4, \$10 each w/set.

Control Boxes Filters Indicators Tuning Units Amplifiers

ALARM BELL
OPERATES FROM
24 VOLT D.C.
SIZE: 4 1/2" x 2 1/2"
WT: 1LB #561-3
NEW \$1.95



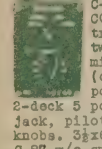
BC-1361 SWITCH BOX
w/bulbless light,
2 water-proof conn
4SPST switch, SPST
mcm. sw., and two
binding posts.
6 1/2" x 2 1/2", 2 lbs. #3.



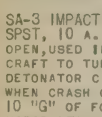
AZIMUTH
MN-52H AZIMUTH
CONTROL has spin
knob for rotating
MN-20-24 or similar
antenna loops
which require
MO-124 spline.
360 azimuth in-
dicator pointer moves as
loop is turned. 5 1/2" x 1 1/2",
3 lbs. Unused, \$6.95



**C-87/ART-15 PILOT
CONTROL** f/ART-13
transceiver; has
two 1 1/2" dia. cera-
mic rotary switch
(one 1-deck 12-
position; other
2-deck 5 pole 3-pos), mic
jack, pilot light, and 2
knobs. 5 1/2" x 3", 2 lb. \$4.00
C-87 w/o switches, knob \$1.



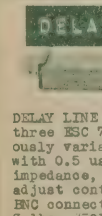
SA-3 IMPACT SWITCH
SPST, 10 A. NORM.
OPEN, USED IN AIR-
CRAFT TO TURN ON
DEFONATOR CIRCUIT
WHEN CRASH OCCURS
10 "G" OF FORCE,
HORIZONTAL PLANE. \$1.95 EA.



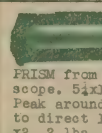
LS-230 INTERCOM
UNIONIZATION STAT-
ION CONTROL BX
CONTAINS 3 ROT
ARY 3 POSITION
LEVER CONT. SW
1 LEVER SW. OP
D CENTER OFF,
OTHERSIDE SPST MOM. & CENTE
OFF. 3 LITE IND. PHONE &
MIKE JACK & MIN. TRANSFER
50 TO 500 OHM. SIZE: 7 1/2" x 2 1/2";
WT: 3 LBS. PRICE: \$5.95



DELAY LINES
DELAY LINE ASSEMBLY with
three EGC 71-26-1 continu-
ously variable DL's, each
with 0.5 used delay, 750
impedance, and screwdriver
adjust control. Also five
EHC connections. 10 1/2" x 2 1/2",
3 lbs. #5915-650-3805



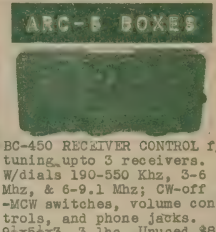
PRISM
PRISM FROM M441 view peris-
cope. 5 1/2" x 1 1/2" view area.
Peak around corners or use
to direct light. O/A 6 1/2" x 2 1/2",
2 lbs. Used \$2.75 2 1/2" #5.



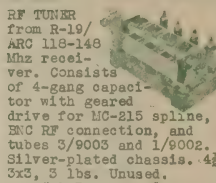
RIGHT ANGLE
DRIVE variator
control, 1 1/2"
dia. dial, w/
look & cou-
pling f/1" shif-
3-hole mtg. #TU-10RA, \$2.



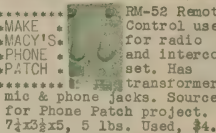
ARC-5 BOXES
BC-450 RECEIVER CONTROL f/
tuning upto 3 receivers.
W/dials 190-550 KHz, 3-6
MHz, & 6-9.1 MHz; CW-off
-10W switches, volume con-
trols, and phone jacks.
9 1/2" x 3 1/2", 3 lbs. Unused \$8.



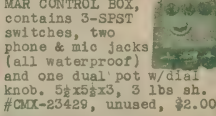
RF TUNER
from R-19/
ARC 118-148
MHz recei-
ver. Consists
of 4-gang capaci-
tor drive for 10-215 spline,
EHC RF connection, and
tubes 3/9003 and 1/9002.
Silver-plated chassis. 4 1/2" x
3 1/2", 3 lbs. Unused.
ARC #15176 \$12.95



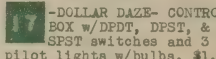
RM-52 Remote
Control used
for radio
and intercom
set. Has
transmitter,
mic & phone jacks. Source
for Phone Patch project.
7 1/2" x 2 1/2", 5 lbs. Used, \$4.



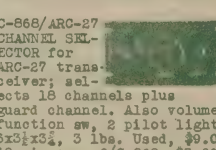
MAR CONTROL BOX,
contains 3-SPST
switches, two
phone & mic jacks
(all waterproof)
and one dual pot w/dial
knob. 5 1/2" x 3 1/2", 3 lbs sh.
#CMX-23429, unused, \$2.00



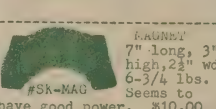
DOLLAR DAZE- CONTROL
BOX w/DDPT, DPST, &
SPST switches and 3
pilot lights w/bulbs. \$1.



C-868/ARC-27
CHANNEL SEL-
ECTOR for
ARC-27 trans-
ceiver; sel-
ects 18 channels plus
guard channel. Also volume,
function sw. 2 pilot lights
8 1/2" x 3 1/2", 3 lbs. Used, \$9.00
19-pin conn f/C-868, \$3.00



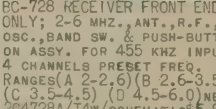
RAUNET
7" long, 3"
high, 2 1/2" wd.
6-3/4 lbs.
#SK-MAG
Seems to
have good power. \$10.00



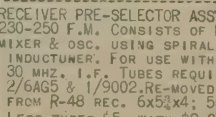
BC-728 RECEIVER FRONT END
ONLY; 2-6 MHz. ANT., R.F.,
OSC., BAND SW. PUSH-BUTT-
ON ASSY. FOR 455 KHZ INPUT
4 CHANNELS PRESET FREQ.
RANGES (A 2-2.6) (B 2.6-3.5)
(C 3.5-4.5) (D 4.5-6.0) NEW
204728A/T4W/SCHEMATIC \$5.95



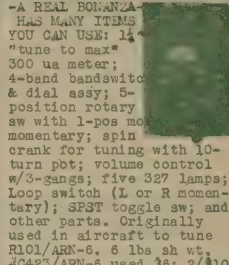
RECEIVER PRE-SELECTOR ASSY.
230-250 F.M. CONSISTS OF RF
MIXER & OSC. USING SPIRAL
INDUCTOR. FOR USE WITH
30 MHz. I.F. TUBES REQUIRE
2/6AG5 & 1/9002. RE-MOVED
FROM R-48 REC. 6 1/2" x 4 1/2"; 6LB
LESS TUBES \$5 WITH \$9.00



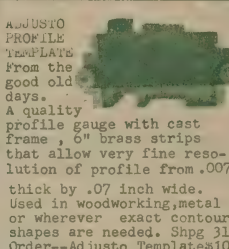
RUBBER SHOCK MOUNTING
4 lbs #4 \$4.45
6 " #6 .50
10 " #10 .60
12 " #12 .65
16 " #16 .75
24 " #24 1.00
35 " #35 1.25
OTHER WEIGHTS AVAILABLE



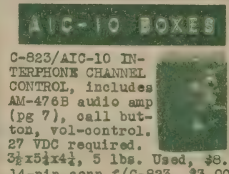
A REAL ROMANZA
HAS MANY ITEMS
YOU CAN USE: 14
"tune to max"
300 ua meter;
4-band bandswitch
& dial Assy; 5-
position rotary
sw with 1-pos mo-
mentary; spin
crank for tuning with 10-
turn pot; volume control
w/3-gangs; five 327 lamps;
Loop switch (L or R momen-
tary); SPST toggle sw.
and other parts. Originally
used in aircraft to tune
R101/ARM-6, 6 lbs sh wt.
#C423/ARM-6 used \$8; 2/10.



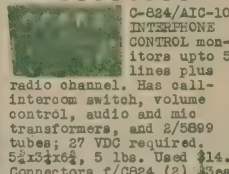
ADJUSTO PROFILE
Template
From the
good old
days.
A quality
profile gauge with cast
frame, 6" brass strips
that allow very fine res-
olution of profile from .007
thick by .07 inch wide.
Used in woodworking, metal
or wherever exact contour
shapes are needed. Shpg 3lb
Order-Adjusto Template \$10



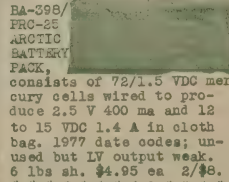
AIC-10 BOXES
C-823/AIC-10 IN-
TERPHONE CHANNEL
CONTROL includes
AM-4765 audio amp
(pg 7), call butt-
on, vol-control.
27 VDC required.
5 1/2" x 4 1/2", 5 lbs. Used, \$8.
14-pin conn f/C-823, \$3.00



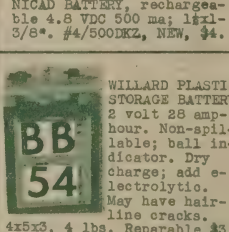
C-824/AIC-10
INTERPHONE
CONTROL moni-
tors upto 5
lines plus
radio channel. Has call-
intercom switch, volume
control, audio and mic
transformers, and 2/569P
tubes; 27 VDC required.
5 1/2" x 4 1/2", 5 lbs. Used \$14.
Connectors f/C824 (2) \$3 ea



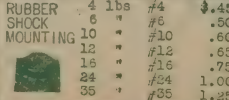
BA-398/
ARC-25
ARCOTIC
BATTERY
PACK,
consists of 72/1.5 VDC mer-
cury cells wired to pro-
duce 2.5 V 400 ma and 12
to 15 VDC 1.4 A in cloth
bag. 1977 date codes; un-
used but LV output weak.
6 lbs sh. \$4.95 ea 2/30.



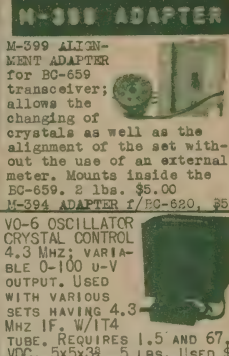
WILLARD PLASTIC
STORAGE BATTERY
2 volt 28 amp-
hour. Non-appli-
cable; ball in-
dicator. Dry
charge; add e-
lectrolytic.
May have hair-
line cracks.
4 1/2" x 3", 4 lbs. Repairable \$3.



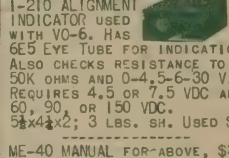
BB-54
4 1/2" x 3", 4 lbs. Repairable \$3.



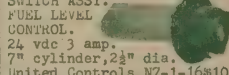
M-399 ADAPTER
M-399 ALTIM-
ETER ADAPTER
for BC-659
transceiver;
allows the
changing of
crystals as well as the
alignment of the set with-
out the use of an external
meter. Mounts inside the
BC-659. 2 lbs. \$5.00
M-394 ADAPTER f/BC-680, \$5.



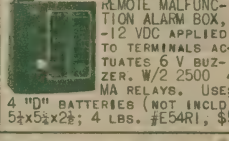
VO-6 OSCILLATOR
CRYSTAL CONTROL
4.3 MHz. VARI-
ABLE 0-100 u-V
OUTPUT. USED
WITH VARIOUS
SETS HAVING 4.3
MHZ IF. W/IT4
TUBE. REQUIRES 1.5 AND 67.5
VDC. 5 1/2" x 3 1/2", 5 lbs. Used \$8



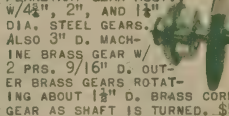
1-210 ALIGNMENT
INDICATOR USED
WITH VO-6. HAS
6E5 EYE TUBE FOR INDICATION
ALSO CHECKS RESISTANCE TO
50K OHMS AND 0-4.5-6-30 V.
REQUIRES 4.5 OR 7.5 VDC AND
60, 90, or 150 SH. USED \$9
5 1/2" x 4 1/2", 3 lbs. SH. USED \$9



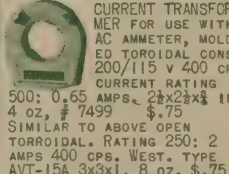
SWITCH ASSY.
FUEL LEVEL
CONTROL.
2 1/2 vdc 3 amp.
7" cylinder, 2 1/2" dia.
United Controls N7-1-16 \$10



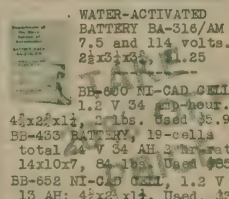
REMOTE MALFUNG-
TION ALARM BOX,
-12 VDC APPLIED
TO TERMINALS AC-
TUATES 6 V BUZZ-
ZER. W/2 250-4
MA RELAYS. USES
4 "D" BATTERIES (NOT INCLD)
5 1/2" x 5 1/2", 4 lbs. #E54R1, \$5



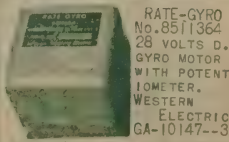
PLANETARY GEAR ASSY.
W/4 1/2", 2", and 1 1/2"
DIA. STEEL GEARS.
Also 3" D. MACH-
INE BRASS GEAR W/
2 PRS. 9/16" D. OUT-
ER BRASS GEARS ROTAT-
ING ABOUT 1 1/2" D. BRASS CO-
GEAR AS SHAFT IS TURNED. \$5



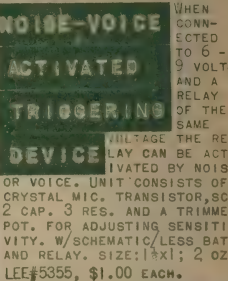
CURRENT TRANSFORMER
FOR USE WITH
AC AMMETER, MOLO-
DED TOROIDAL CORE
200/115 V 400 CPS
CURRENT RATING
500: 0.65 AMPS. 2 1/2" x 2 1/2" x 1 1/2",
4 oz, # 7499 \$.75
SIMILAR TO ABOVE OPEN
TOROIDAL. RATING 250: 2
AMPS 400 CPS. WEST. TYPE
AVT-15A 3X3X1, 8 oz. \$.75



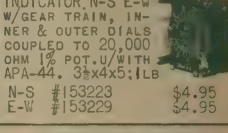
WATER-ACTIVATED
BATTERY BA-316/AM
7.5 and 114 volts.
2 1/2" x 1 1/2", \$1.25
BB-600 NI-CAD CELL,
1.2 V 34 amp-hour
4 1/2" x 1 1/2", 2 lbs. Used \$8.95
BB-433 BATTERY, 19-cells
total 24 V 34 AH 3 hr. rate
14x10x7, 84 lbs. Used \$85.
BB-652 NI-CAD CELL, 1.2 V
13 AH; 4 1/2" x 1 1/2", Used, \$3.



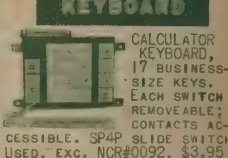
NOISE-VOICE
WHEN
CONN-
ECTED
TO 6-
9 VOLTS
AND A
RELAY
OF THE
SAME
VOLTAGE THE RE-
LAY CAN BE ACTI-
VATED BY NOISE
OR VOICE. UNIT CONSISTS OF
CRYSTAL MIC. TRANSISTOR, SCR
2 CAP. 3 RES. AND A TRIMMER
POT. FOR ADJUSTING SENSITI-
VITY. W/SCHEMATIC/LESS BATT
AND RELAY. SIZE: 1 1/2" x 1; 2 OZ.
LEE#5355, \$1.00 EACH.



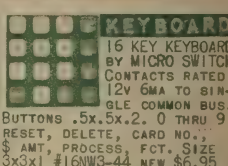
INDICATOR N-S E-W
W/GEAR TRAIN, IN-
NER & OUTER DIALS
COUPLED TO 20,000
OHM 1/2 POT. U/WITH
APA-44. 3 1/2" x 5 1/2"; 1LB
N-S #153223 \$4.95
E-W #153229 \$4.95



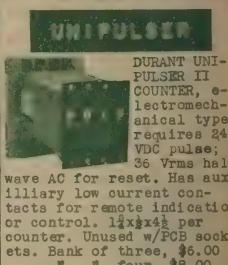
KEYBOARD
CALCULATOR
KEYBOARD,
17 BUSY-
SIZE KEYS.
EACH SWITCH
REMOVABLE;
CONTACTS AC-
CESSIBLE. SPAD SLIDE SWITCH
USED, EXC. NCR#0092, \$3.95



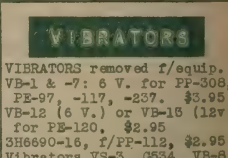
KEYBOARD
16 KEY KEYBOARD
BY MICRO SWITCH
CONTACTS STATED
12V GMA TO SIM-
PLE COMMON BUS.
BUTTONS .5x.5x.2 O THRU 9
RESET, DELETE, CARD NO.,
\$ AMT, PROCESS, FCT. SIZE
3x3x1 #16NW3-44 NEW \$6.95



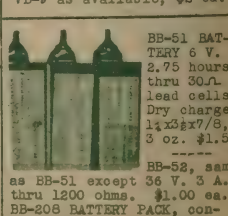
UNIPULSER
DURANT UNI-
PULSER II
COUNTER, e-
lectromech-
anical type
requires 24
VDC pulses;
36 Vrms half
wave AC for reset. Has auxil-
iary low current con-
tacts for remote indication
or control. 1 1/2" x 1 1/2" x 1 1/2",
per counter. Unused w/PCB sock-
ets. Bank of three, \$6.00
" " four, \$8.00



VIBRATORS
VIBRATORS removed f/equip.
VB-1 & -7: 6 V. for PF-308,
PF-97, -117, -237. \$3.95
VB-12 (6 V.) or VB-15 (12V)
for PB-120. \$2.95
3H6990-16, f/PP-112, \$2.95
Vibrators VS-3, 6534, VB-8,
VB-9 as available, \$2 ea.



BB-51 BATTERY
6 V.
2.75 hours
thru 30A.
lead cells.
Dry charge.
1 1/2" x 7/8",
3 oz. \$1.50
BB-52, same
as BB-51 except 36 V. 3 A.
thru 1200 ohms. \$1.00 ea.
BB-208 BATTERY PACK, con-
tains BB-51, 3/BB-52, \$3.



PUSH-TO-TEST

PUSH TO TEST INDICATORS WITH MARKINGS ALSO HAVE CLEAR & AMBER LENSES

KORRY MFG., ALL UNUSED.

KORRY 260 Push-To-Test Indicators, Double Lampholder with Miniature Bayonet Bases. 1 1/2" x 2 1/2" x 2 1/2". NEW. Choose from these lens inscriptions: POWER, PHASE B POWER, 28 VDC. OR 24 VOLTS DC. \$1 ea. \$3/2

KORRY 260 indicators with rocket launch-related inscriptions: UNLOCK, TESTING, COMPONENTS TEST POWER ON, HEATER 1-2-3, CENTER, IN OVERFLOW, IN LOWER LEVEL, IN UPPER LEVEL, 100% LIQ OXY, LIQ OXYGEN FINE, FUEL TANK PRESSURIZED, COOLANT FILL, IGNITER, 40 C THERMO-STAT, AIRBORNE POWER SUPPLY, LOX THROT VALVE HEATER. Price: 75¢ ea or 4 for \$2.

ASSORTMENT OF ROCKET LAUNCH INDICATORS, NO CHOICE, 6/32

KORRY 136 Push-to-Test Indicators, Single Lampholder with Miniature Bayonet Base. 1 1/2" x 2 1/2" x 2 1/2". Inscriptions: STANDBY; OVER-LOAD; LOW; MALF. 65¢ 2/1.

KORRY 103 Indicator, Push-on Red Plastic Cap; Plastic Body. 5/8" single hole mount. \$5167, 50¢ ea. \$3/1.

LAMP HOLDERS for 327 lamps. 1" hole mtg. FLAT TOP LENSE 3/8" DEEP.

WHITE LENS NUMBERED 1 TO 9, YELLOW ("MAX"), RED, AMBER, AND GREEN. SPECIFY.

#6210-37-0934, 39¢ ea.

#327 LAMP FOR ABOVE, 39¢

NEON CYLINDRICAL TYPE LITE

ELDEMA V W/RES. 3/8x1/2

#2685 28v .04A 1/4x7/8

OBLONG SLIP IN TYPE NEON

1/2x1-3/8 125v. \$3100 USED

ALL ABOVE 3 FOR \$1.00

MINIATURE LAMPS

STK #	TYPE	V. A.	BASE	BULB	EA	Per 10
#14	flashlight	2.47	.3 and so	G-12	.30	\$2.00
#382		14 .08	min flanked T-12	.35	2.50	
#327	grain of wheat	28 v .04 A	T-12	.35	3.00	
#480		22 .55	min so G-6	.35	3.00	
#511		2 .25	min so G-6	.20	1.00	
NE-2	switchboard	1/17 2F	slide base	.20	1.00	
NE-49/991	neon	115 .25	DC bay T-4	1.50	12.00	
NE-61	neon	115 .25	min bay T-4	.40	3.00	
223982		18 .11	can bay T-4	.20	1.00	
405491K1	switchboard	K1	slide base	.20	1.00	
624806.6	TS-87	6-8 v	can bay	3-6el .35	3.00	

MARINE TYPE 600 WATT 28 VOLT GE Q600 PAR 56/1 SCREW TERMINALS PRICE: \$6.00 EA. WRITE FOR 100 LOT PRICE.

GRIMES LAMP ASSY. #4725-24 WITH 327 GRAIN WHEAT BULB. 6220-333-5827 59¢ ea. 2 FOR \$1

RF LINE FILTERS, unused. *****

#513-3405, 2x5 amp 125 VAC 60 Hz; four solder terminals. 2x2x1 1/4, 1 lb. \$1.25 ea.

#410-3, 2x5 amps 125/250 VAC 50-400 Hz; four solder terminals. 2x2x1 1/4, 1 lb. \$1.25 ea.

#FA-380, 3 x 28 VDC 10 amps; screw terminals. Filtertron mfg.; 3x3x1 1/2, 2 lbs. Unused, \$2.50

Sprague #JN17-2028A, 300 amps 100 VDC; lug terminals, 7x3 mts plate. 7 lbs. \$12.95

#537-6615, 55 amps 30 VDC; two stud terminals. 2x5x2, 3 lbs sh wt. \$2.95

ADJUSTABLE ALUMINUM SHOCK-MOUNT WITH FOUR 1 1/2-3 LBS. SHOCKMOUNTS. PERFECT FOR SMALL POWER SUPPLY, AMPLIFIER OR OTHER GEAR. FITS 5-1/8" X 6 1/2" TO 7 1/2" DEEP UNIT; 2" HIGH. SH WT: 3 LBS. #MT-569A/ARA, UNUSED, \$2.50

500 KHZ FILTER

COLLINS 500 KHZ FILTER ASSEMBLY consisting of nine adjustable coils and associated capacitors on 1/2x1/2 enclosed chassis. Uses MB style miniature connector. Units are checked, but may need alignment. Collins part #542-4777-004, \$5.00 Above, need repair, 2/34.00

INDUCTORS

FERRITE POT CORE INDUCTORS, PC mount; 7/8x2 1/2 dia. NEW. 123-177 mH, #N243, \$1.50 600 mH, #404-3-2, \$1.50 TORROIDAL COILS, 5/16x1 dia 150 mH, #403-1-1, 85¢ ea.

TELEPHONE PICK UP COIL used in modern data coupler; no specs. 5/8x1 1/2 dia #403-4 \$1

MEISSNER PLUG-IN COILS, 3 in set including osc. grid, osc. plate, & buffer. PRICE

3C2500-51 8K40-2410 \$1.50

3C2500-52 2395-2835 1.75

Standard 4-5-6 prong sockets required for each set.

NATIONAL NC-100 ASC CW OSC tuning coil, 456 KHz, \$3.

1st IF 9A1952 \$147 \$3.00

2nd IF 9A1953 \$148 3.00

BUD TRANSMITTING PLUG-IN COILS on 5-pin ceramic base

#3C804 40 meters \$1.50

COLLINS FILTER

COLLINS MECHANICAL FILTERS Used, repairable @ \$3 each:

#526-9039-00 F250-A57

#526-9130-00 F250-24

#526-9311-00 F300-25

#526-9312-00 F300-24

Used, repairable @ \$8 each:

#526-9259-00 F455-3

#526-9310-00 F455-3

#526-8088-00, 21.605 Mhz;

(5895-980-9828) NEW \$20.

#526-9369-00, F64-27;

(5915-724-6533) NEW \$22.

#526-9089-00, F455-J31; NEW \$40.

MOTOROLA MECHANICAL FILTER on assemblies; F-307 type:

438 KHz \$3.00; Assembly with 450 & 480 KHz, \$6.95

TERMINAL LUGS, insulated for 22-18 wire. Specify ring or spade tongue style.

15¢/100 100/34. 1K/\$25.

AVIKRIM quick connect: #AA3140 or M3136 (26-24)

12¢/100 100/37. 1K/\$35.

SIMPLEX HORN, 6 VAC 2.5 AMP 60 HZ. MAKES LOW PENETRATING NOISE; SCREWDRIVER VOLUME ADJUST. HEAVY STEEL CONSTRUCTION. DESIGNED FOR PARTIAL RECESS MOUNT. FRONT ENCLOSURE 4x4x1 1/2; DEPTH REQUIRED BEHIND: 1 1/2. #624-427, \$5.95

SPRAGUE #JN14-1551A 3 X 50 AMP 440 VAC 60 HZ LINE FILTER, 11x1 1/2x3 1/2, 18 lbs sh. NEW, \$18.95

GENTSCO GF-1901-75D 75 AMP 250 VAC/600 VDC FILTER, knock-outs for hook-up; long style 21x4x4, 23 lbs. NEW \$14.

FLUTED KNOBS



HEAVY DUTY SPIN KNOB, 2 1/2" dia; 1" H spin handle. Brass insert f/1/2" shft \$3.

LUXITROL KNOB, 2-3/8" dia. w/pointer; fits 3/8" dia. shaft. \$1.50

#9682 KNOB, 2 1/2" across flutes; 3" dia. skirt. F/1/2" dia. shaft. \$1.25

7 1/2" DIA. WHEEL-TYPE CONTROL, fits 3/4" dia. shaft. 2 lbs. W/pointer \$4.95 Without, \$3.95

HEWLETT-PACKARD knob from test equipment, 1-3/8" dia. skirt, 1/2" high; brass insert for 1" shaft. \$1.00

1-5/8" DIA. FLUTED KNOB W/2" SKIRT; FITS 1" SHAFT. URC# S-649, \$1.25 NEW

1 1/2" DIA. FLUTED KNOB WITH SKIRT AND POINTER. BRASS INSERT FOR 1" SHAFT. KBNB005 \$2.25

MODERN GREY KNOB w/fine-ribbed side. 1 1/2" dia X 9/16"H. 7/8" dia sh. #7577 NEW \$1.

1 1/2" dia fluted knob with 2" dia skirt; brass insert f/1/2" shft. #0728 NEW \$1.00

1" DIA. FLUTED KNOB WITH BRASS INSERT FOR 1" SHAFT. KBNB008 \$2.25

ALL THE ABOVE KNOBS ARE CF SET SCREW TYPE.

SPIN KNOBS

2" DIA. METAL FLUTED SPIN KNOB W/3/32" SHAFT. KBNB009 \$7.79

2 1/2" DIA. SPIN KNOB. METAL. TAKES 3/16" SHAFT. #8089 NEW \$2.00

MAKE ANY FLAT KNOB A SPIN 1 1/2" ADAPTER WITH 3 HOLES, TO FASTEN TO YOUR KNOB, WITH SPIN GRIPPER#225816-3 \$1.00

1-5/8" DIA. METAL SPIN KNOB F/1" SHAFT. URC#KNO2, \$1.50

1 1/2" DIA. FLUTED KNOB W/1 1/2" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KNO4, \$5.50

1-5/8" DIA. FLUTED KNOB W/2" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KNO3, \$7.75

Brown 1" dia x 1 1/2" high knob for 1/2" shft. #KNC025, 2/25¢

RECTIFIER CAPACITOR ASSY WITH TWO 950 MFD 75 VDC (90V SURGE) COMPUTER GRADE CAPACITORS, TWO 50 MFD 75 VDC CAPS, AND FIVE 200 V 2 AMP DIODES. USE AS BASE FOR SMALL POWER SUPPLY. REMOVED FROM EQUIP-EXCELLENT, \$2.95

ADJUSTABLE ALUMINUM SHOCK-MOUNT WITH FOUR 1 1/2-3 LBS. SHOCKMOUNTS. PERFECT FOR SMALL POWER SUPPLY, AMPLIFIER OR OTHER GEAR. FITS 5-1/8" X 6 1/2" TO 7 1/2" DEEP UNIT; 2" HIGH. SH WT: 3 LBS. #MT-569A/ARA, UNUSED, \$2.50

2" TUNING KNOB black w/chrome-finish trim Metal insert f/1/2" dia shft. #JROB-E/C \$1.25

1" dia. x 1 1/16" high knob. Ribbed style; Insert recessed 1/2" from base for flush fit. KNE279, 30¢ ea.

1 1/2" KNOB MARKED "INCREASED OUTPUT" 1 1/2" HOLE WITH SET SCREW. 1/2" THICK. METAL. KBNB023 \$2.25

2" TUNING KNOB black w/chrome-finish trim Metal insert f/1/2" dia shft. #JROB-E/C \$1.25

1" dia. x 1 1/16" high knob. Ribbed style; Insert recessed 1/2" from base for flush fit. KNE279, 30¢ ea.

1 1/2" KNOB MARKED "INCREASED OUTPUT" 1 1/2" HOLE WITH SET SCREW. 1/2" THICK. METAL. KBNB023 \$2.25

2" TUNING KNOB black w/chrome-finish trim Metal insert f/1/2" dia shft. #JROB-E/C \$1.25

HAMMARLUND DIAL #5127-2

2 1/2" silver skirt marked 10 to 0; 1-5/8" dia knurled knob. #E821, NEW, \$1.50

MATCHED KNOBS, rounded edge w/4 sets of 4 hash ridges. Looks like old Hammarlund. #E168 2 1/2" \$3 #E570 1 1/2" \$2

HALLICRAFTERS with big 1 1/2" dia; arrow & grip bar. #H81014 new \$1.50

BAR TYPE KNOBS

HAR TYPE BAKELITE KNOB FOR 1" SHAFT. 1 1/2"x1 1/2"x5/8". SET SCREW TYPE. KBNB012 \$2.25

BAR TYPE BAKELITE KNOB FOR 1 1/2" SHAFT WHICH MUST BE TAPED FOR SET SCREW. 1 1/2"x1 1/2"x5/8". KBNB013 \$2.25

RECTANGULAR BAR TYPE BAKELITE KNOB 1 1/2"x1 1/2"x5/8". WITH BRASS INSERT FOR 1 1/2" SHAFT. SET SCREW TYPE. KBNB014 \$2.25

Pointer knob with brass insert for 1" shaft; 1 1/2"x1 1/2". #KBNB026 25¢ ea

Bartype bakelite knob with pointer. For 1/8" shaft; vertical set screw. 1 1/2"x5/8"x3/4". KBNB016 4/1.00

Rounded bar style knob, 1-1/8" long x 1/2" across x 1 1/16" H. Brass insert f/1/2" dia sh. #KNART13 3/1.

1 1/2" DIA. METAL KNOB FOR 1" SHAFT WITH TWO SET SCREWS. FINGER GRIPKNOB FOR HEAVY SWITCHING APPLICATIONS. KBNB018 2/3.35

1-5/8" dia plastic knob with 2 1/2" dia aluminum skirt calibrated 0 to 10. Brass insert for 1" dia shaft. #9414 NEW \$5.00 ea

1" dia plastic knob with 1 1/2" dia skirt calibrated alphabetically A-B, .Y-Z. Aluminum skirt; f/1/2" shaft. #5312 NEW \$5.00 ea

3/4" RIBBED KNOB 7/8" DEEP 1" SKIRT F/1/2" SHAFT DULL BLK.KNB7820 35¢

5/8"x3/4" SAME AS ABOVE BRIGHT BLK.KNB1261 20¢

1" dia. x 1 1/16" high knob. Ribbed style; Insert recessed 1/2" from base for flush fit. KNE279, 30¢ ea.

1 1/2" KNOB MARKED "INCREASED OUTPUT" 1 1/2" HOLE WITH SET SCREW. 1/2" THICK. METAL. KBNB023 \$2.25

2" TUNING KNOB black w/chrome-finish trim Metal insert f/1/2" dia shft. #JROB-E/C \$1.25

1" dia. x 1 1/16" high knob. Ribbed style; Insert recessed 1/2" from base for flush fit. KNE279, 30¢ ea.

1 1/2" KNOB MARKED "INCREASED OUTPUT" 1 1/2" HOLE WITH SET SCREW. 1/2" THICK. METAL. KBNB023 \$2.25

2" TUNING KNOB black w/chrome-finish trim Metal insert f/1/2" dia shft. #JROB-E/C \$1.25

1" dia. x 1 1/16" high knob. Ribbed style; Insert recessed 1/2" from base for flush fit. KNE279, 30¢ ea.

1 1/2" KNOB MARKED "INCREASED OUTPUT" 1 1/2" HOLE WITH SET SCREW. 1/2" THICK. METAL. KBNB023 \$2.25

2" TUNING KNOB black w/chrome-finish trim Metal insert f/1/2" dia shft. #JROB-E/C \$1.25

1" dia. x 1 1/16" high knob. Ribbed style; Insert recessed 1/2" from base for flush fit. KNE279, 30¢ ea.

1 1/2" KNOB MARKED "INCREASED OUTPUT" 1 1/2" HOLE WITH SET SCREW. 1/2" THICK. METAL. KBNB023 \$2.25

2" TUNING KNOB black w/chrome-finish trim Metal insert f/1/2" dia shft. #JROB-E/C \$1.25

1" dia. x 1 1/16" high knob. Ribbed style; Insert recessed 1/2" from base for flush fit. KNE279, 30¢ ea.

1 1/2" KNOB MARKED "INCREASED OUTPUT" 1 1/2" HOLE WITH SET SCREW. 1/2" THICK. METAL. KBNB023 \$2.25

2" TUNING KNOB black w/chrome-finish trim Metal insert f/1/2" dia shft. #JROB-E/C \$1.25

1" dia. x 1 1/16" high knob. Ribbed style; Insert recessed 1/2" from base for flush fit. KNE279, 30¢ ea.

NATIONAL HRO COILS

Individual coils for HRO receiver coil set plug-ins. Unused, \$2.50 each; 4/\$8.00

KHz.
50-100: B112, B113/B143, B144/B144
100-200: B109/B139, B140
175-400: B112, B113
900-2000: B120
2-4 Mhz: B123
4-7 " : B127, B128, B129
7-14 " : B130, B131
14-30 Mhz: B30, B137

BC-610 *****

BC-610 XMITTER
PLUG-IN TUNING
UNITS, 4 lbs.
1MHZ Priced
C-399A 4.5-5.7 MVL \$4.00
C-389C " " WVL 6.00
C-447 8.0-11 MVL 4.00
C-447B " " WVL 6.00

TU-47 (2.0-3.5 Mhz), TU-48
(2.5-3.2), TU-49 (3.2-4.0)
TU-50 (4-5), \$7.50 each
TU-52 (6.35-8.0 Mhz) \$7.50
TU-54 (12-18 Mhz), \$12.00

VACUUM CAPACITOR by Jennings

with connectors. Unused.
3.0mmf 15KV "W" \$2.75
Jennings or equal mfg. used.
12mmf 20KV "VC" \$10.00
50mmf 20 KV "VC" \$12.00

TRAVELING WAVE TUBE



EMI 7640 TWT, similar to
Hughes 315H; 2.0-4.0 Ghz,
1 KW output, 30 db. 16x3x2
x5; 20 lbs. sh. Sold as an
experimenter's item only;
not guaranteed. \$17.50

ITT D-2013 CW TWT, 5 watts
33 db gain, 8.0-9.6 Ghz;
6.3 v. heater. 12x1x1 dia.
3 lbs. sh. Unused, \$45.00

RCA 4012/AL157 TWT, 2.0-

4.0 Ghz, 36 db min., 20 MW
min. 15x1 x 3x2 x 1 1/2"
4 lbs. sh. Unused, \$40.00

VARIABLE CAPACITORS, removed /

T-195/GRG
transmitter.
#C-222/T-195, 25-485 pf
one sec. 1 23-437 pf air
cap. with gears 1 1/2" dia. and
5/8" d. 4x3x4 1/2 overall. \$4.95

#C-221/T-195, 13.5-77.8 pf
one section; 17-99.6 pf the
other. 0.094" air gap. 2 1/2"
dia. shaft. 5x1x1 1/2
overall, 2 lbs sh. \$3.95
20-400 PF
0.02" gap. 2 1/2"
Ceramic
insulation,
silver
vane plate.
5/8x2 1/2 dia shaft. 4x1-5/8
x1 1/2. #C-1003/T-195, \$4.95

TCS VARIABLE
CAPACITOR, 2
SEC. 10-360
MMF, ONE SEC.
10-360 MMF.
3 GANG CALI-
BRATED OIL 4" 1.5 to 12 MHZ
Size: 7x3x3 1/2; WT: 10 LBS.
#881 \$3.95 USED

SINGLE SECTION
11-67 pf .05"
spacing. Has
three front
mount spacers
for #5 screws
Shaft 3/8x1 1/2 dia; o/a 3 1/2
1-7/8x2 1/2. #3D9067VBS \$3.95
RRF-3-14A164, 10-40mmf gap
0.04". 2x1/2x2x2 1/2 \$2.95

HAMMARLUND
VAR. CAPACITOR
20-90 pf 0.05"
spacing. Sil-
ver-plated,
0.04" thik.
plates. Right
angle worm and split gear
drive. Shaft 3/8 x 1 1/2 dia.
4x3x2 1/2 #446-6571 \$3.95

FREQUENCY METER
VARIABLE CAPACITOR
W/VERNIER TUNING
11.5-160MMF. 3X3x5; 2LBS.
#BC-221 or EQUAL NEW \$8

CARDWELL

MR-260-ED
dual sec-
tion, 11 to
260 pf/sec;
0.03" gap. 1 1/2" dia shaft;
o/a 5x1-3/8x3, 2 lb. \$7.
SINGLE SECTION 14-365 pf
0.03" gap. Shaft 1-5/8x1 1/2
dia; o/a 4-5/8x1-5/8x2 1/2,
2 lbs. #3D9365V-2, \$4.95
THREE GANG, 15-85 pf/gang
0.03" gap. 3x1-5/8x3 1/2
#074-049 unused \$4.95
#48B083; 10-106 pf, 0.02"
air gap; 1 1/2x1 1/2, shaft
1 1/2" dia. Unused, \$1.95

BC-624 RECEIVER
R.F. TUNER ASSY
100 - 156 MHz
A.M. W/VARIABLE
CAP., COILS, TUBE
SOCKETS. OSC.
SEC. P/O SCR-522
5X5x5; WT: 7 LBS
22K11150 Used \$3.95/N \$5.95

2-GANG 6-16 pf/gang 0.05"
gap. Silver-plated with
brass gears; p/o TS-497
sig generator. 7/8x5 1/2"
dia shaft; o/a 4x2-3/8x3.
#3330-312, unused, \$5.95

TANK TUNING CAPACITOR FROM
MANK II; 1-GANG, 0-563 PF.
0.03" air gap. 3x2x1 1/2, 1 1/2
dia shaft. #76348-C, \$2.95

TUNING CAPACITOR
F/R-176/
PRC-10, 18 to
54.9 MHz; 5-
GANG. 5-33 pf/
gang. With 1 1/2" and 5/8"
dia. gears; 3/16" dia shaft.
1 1/2x1-5/8x4, used, \$4.95

BROADBAND TUNER -
14-50 MHz
10-150mmf var
capacitor
mechanically
coupled to
iron slug in
a coil which
moves as the
capacitor is
rotated.
various other
components.
3 1/2x2 1/2 #RT-45 \$1.95

TRANS. CAPS.

Dual 4-30 MMF 1000 VDC 1 1/2
x 1/2, shaft 1 1/2 x 1/2 p/o BC-640
CARDWELL 4307/1M REM \$2.95

Dual 5-25 MMF 2000 VDC 1 1/2
x 1/2 shaft 1 1/2 x 1/2 p/o BC-640
CARDWELL 525/2M REM \$3.95

Dual 4-20 MMF 2000 VDC 1 1/2
x 1/2 shaft 1 1/2 x 1/2 p/o BC-640
CARDWELL 420/2M REM \$3.95

Dual 4-50 MMF 1000 VDC 1 1/2
x 1/2 shaft 1 1/2 x 1/2 p/o BC640
CARDWELL 450/1M REM \$2.95

BC-624/522 RECEI-
VER, 3 GANG 6-36
MMF EACH SECTION
WITH SILENT
THIN SHAFT 5/16
x 1/2 #3D9036V
Size: 4 1/2x2 1/2x3 1/2; LB. \$1.50

12-365 PF SINGLE SECTION,
gear reduction tuning. 1 1/2
shaft; o/a 5x3x2 1/2.
#3D9378VBS, unused, \$4.50

Dual 6-22 MMF 1500 VDC 1 1/2
x 1/2 shaft 3/16x2 1/2
TELERADIO 622/15M NEW \$1.95

VARIABLE CAPAC-
ITOR, 7-UNUSED TU-10
tuning units.
0.09" air gaps.

#P-7761569, 14-68 pf, 1 1/2"
dia shaft. 2x1 1/2x2 1/2, \$3.95
#7-7660443-8, 8-26 pf, 5/8
x 1/2 dia shaft. Overall
1 1/2x2 1/2, 2 lbs. \$3.95

1-gang, 15-365 pf with 1 1/2"
long shaft; 1 1/2x1 1/2,
#1TH-365 \$2.95

JOHNSON "M" SERIES, 3/16"
dia slotted shafts; o/a
1-5/8x1 1/2x5/8. Used:
#160-110/20ML1, 2.7-19.6
pf, 21 plates, \$1.10
#160-130/30ML, 3 to 32 pf;
28 plates, \$1.25

PRE-SELECTOR
UNIT ASST PART
OF 4-48 REC.
230-250 MHz.
CONSISTS OF R.F.
MIXER & OSCIL.
USING 6X5-2 EA. 9002-1
EA. TUBES (LESS TUBES, FOR
USE WITH 30 MC I.F.)
Size: 6x5 1/2x4; 5 LBS. USED \$5

#VOC-770, 15 pf 5/8x1 1/2 \$1.
VOC-244, 20 pf 1 1/2x1 1/2 \$1.00
VOC-306, 30 pf 2 1/2x1 1/2 \$1.00
AIR CAPACITORS, 0.02" spacing,
shaft 3/8 x 1 1/2, 3x1x1 1/2
#21105-14 8-22 pf \$1.50
#21105-15 8-35 pf \$1.65

TU-33
OSCILLATOR
PLUG-IN FOR
BC-610

FREQ. RANGE 8-12 MHZ. CONTAINS
VAR. CAPACITORS WITH
SHAFTS 140 MMFD. 190 MMFD.
2/CERAMIC CAP. 1/MICA CAP.
4/R.F. COILS, 2/RES. 1/OPDT
5/1/DIAL, 2/KNOBS, CRYSTAL
SOCKET, AND OTHER PARTS.
Size: 2x8 1/2x4 1/2; 4 LBS. \$3.95

5-25 PF
CAPACITOR,
worm gear
insulated
shaft and stators.
Rotor plates on common met-
al shaft; .03" gap. Rating
made with two sections in
series. May be modified in-
to two 10-50 pf sections.
Gear shaft: 1 1/2x1 1/2. Other
5/8x1 1/2 dia. o/a 4x2x1 1/2. Sil-
ver-plated. #710-4608 \$6.95

RECEIVING TYPE
CAPACITORS FOR
AM-FM-AUDIO-
OSCILLATOR USE
WITH SHAFTS.

#48842 Dual 12-90 MMF & 15-
140 MMF Size 1x1x2 \$1.00

#69972 Dual 9-50 MMF & 1-
100 MMF, Size 1x1x2 \$1.00

#330V020-H02 Dual 10-90 &
14-140 MMF 1 1/2x1 1/2 \$1.25

#074-0503-2, 8-20 pf 2 1/2
shaft. \$1.25

Dual 5-15mmf, ceramic, w/fric-
tion gear to hold setting.
0.04" spacing. 2 1/2x1 1/2x7/8 in
dia dia shaft. coil gear
removable. #358-3164 \$1.95

#KS21146L1, 3-
gang, 7-60
PF/SEC. 0.03"
GAP. O/A 5x1 1/2x1 1/2, \$3.95

#NL981337-2; 35-180 PF; 3x
1 1/2x1 1/2; 2 LBS. \$2.95

309200V-19 4 GANG, 14-200
MMF 3x1 1/2x4 1/2 \$4.50

#C-111/ARN-6, 5-gang, 13-
402 pf/sec. 2 1/2x3 1/2x1 1/2 \$5.95

AIR PADDER CAP

ALL PADDER CAPS.
REQUIRE SCREW-
DRIVER ADJUST.

351-1054 2-8 pf 49¢
Q3535 2-20 pf 49¢
C1N48785 5-17 pf 49¢
657-J3 8-55 pf 79¢
K326554 10-49 pf 79¢
SHL72265-2 8-32 pf 59¢
3D90117-7 5-14 pf silver-
plated Hammarlund, 59¢

JOHNSON #189-6-6; 1.8-13 PF
650 v. 7/16x7/16x9/16, 89¢

JOHNSON #T2-16; 1.9-15.7 PF
325 v. 9/16x5/16 dia., 89¢

#3D9006V-7 DIFFERENTIAL, 3-
6 PF, .045" gap; 1 1/2x1 1/2,
2 LBS. D. SHAFT. NEW, \$1.95

20-260 PF
0.02" air
gap. Tap-
pered
plates for
linear fre-
quency;
precision worm and
split right-angle gear
drive. Double shaft 1 1/2
x 3/16" dia each end. o/a
5x3x2 1/2. #3D9270V-4 \$12.95

COMMAND RECEI-
VER VARIABLE
CAPACITORS,
3-GANG, TRIM-
MER & GEARS.
2x3x4 1/2, 3 LBS.
#601, 147 PF, 3-6 Mhz, \$4.
#658, 62 PF, 6-9 Mhz, \$4.

RE-MOVED FROM EQUIP. DESIGN
FOR 14.50 MMF. SIZE: 2x5x5 1/2
4 LBS. #6H502 \$6.95

TRANSMATCH ASSY

ROTARY INDUC-
TOR, 16 TURNS, 5-
4.15 MIC-HRY.
W/VARIABLE CAP.
5-50 MMF. 2000V

MAGNETIC FOCUSING
YOKES WITH 2 MAG
NETS MOUNTED
IN RING, ROTARY
SIZE 2-1/8"
DIA. 5/8" W.

IN MAG. MAG-
NETS 5/8"x9/16
WT: 7 OZ. MAGNET CIR-7.
Price: 35¢ 3 FOR \$1.00

MICROWAVE COUPLERS

DIRECTIONAL
COUPLERS from
1.7-3.4 Ghz
transmitter.

#2CPR/TR025
Double coupler.
DC signal output for power
meter, and 40 db RF for
wavemeter; 3 type C connec-
tions, one 1N21 diode con-
nector for DC. 4x1 1/2x1 1/2 \$8

#3CPR/TR029 TRIPLE COUPLER
which fed P.A. 36 db and
65 db RF outputs; 4 DC out-
put for 2-A meter. 4 1/2"
connections and one 1N21
connector. 5 1/2x1 1/2x1 1/2 \$9.95

#23LT/TR089 2-SLUG TUNER,
provides isolation, coupl-
ing, and impedance match-
ing between 50 ohm klystron
output and P-A input. Two
slug adjust. 10x1 1/2x1 1/2 \$10.

UG-573 C-comm. Used, \$1.25
UG-636 adapts C - ERIC 2.50

AM & FM TUNERS

AM FREQUENCY 550 - 1600 KC
FM FREQUENCY 88 - 108 MC
UNITS HAVE NOT BEEN USED

F.M. TUNER WITH
1/4" 20T8 TUBE &
DIAL. Size 3x2x2
#URC462 \$3.95
A.M. & F.M. TUNER
SAME AS ABOVE
#URC2402 \$4.95

SPIRAL INDUCTO
TUNER 60-50MHz
W/50 PF PARALLEL
3 SEC. SILVER PL.
4x TURN. 3x1x1 1/2
#37695 RE-MOVED \$5.95

LC-902 ANTENNA
INPUT TANK FOR
TN-2A/APR-1 TUN-
ING UNIT, FREQ.
76 to 300 MHz.
WITH VARIABLE
CAPACITOR, COIL, AND 955
TUBE SOCKET. Size: 4x3
WT: 4 LBS. Unused \$9.95

LC-702 ANTENNA MIXER TANK
FOR TN-3A/APR-1 TUNING UNIT
FREQ. 300 to 1000 MHz. WITH
VARIABLE CAPACITOR AND COIL
Size: 2x3x3 WT: 3 LBS.
Price: Unused \$6.95

LC-701 OSCILLATOR TANK FOR
TN-3A. WITH VARIABLE CAP-
ACITOR AND COIL. Size: 4x4
WT: 4 LBS. Unused \$8.95

RECEIVER STYLE
VARIABLE CAP-
ACITORS, 500 V
spacing; 1 1/2" dia
shaft. 3x1x1 1/2, unused.

3-gang, 15-365 pf/gang;
#3FH-365, \$3.95

3-gang, 15-365 pf/gang;
3/8" dia shaft w/3" dia
adapter. #906836 \$4.50

3-gang, 15-280 pf/gang;
#3502LND, \$4.95

3-gang; 2/25-460 & 25-160
pf; #9776 \$4.75

3-gang, 20-360, 20-280, &
20-110 pf; 2-speed drive
1 1/2" and 1/8" dia shaft.
#33V021B01, \$2.75

2-gang 25-460 & 35-200 pf,
3/8" dia shaft. o/a 2 1/2
1 1/2x2. #221657, \$2.00



STAND-OFF, CROWS FOOT, 7"
HX1 0. CAST. BASE, 2" CTRS.
TOP CAST W/3/16"-20 SCREW
#5970-405-8992 \$4.00
SIMILAR, ABOVE 3" 3.00

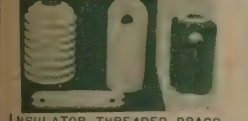
FEED-THRU INSULATOR (Fig 2)
1/2" HOLE 7/8" DIA. W/NECK
3" LONG 30¢
6" LONG 50¢ 8" LONG 60¢
STOCK NO. 1014-(LENGTH)
SAME AS ABOVE OVAL TWIN-

PORCELAIN STAND-OFF INSULATORS, SCREW THREADED.
#P-4H-.75D, 8-24 THD, \$.50
#P-5H-.75D, 8-24 THD, .65
#P-6.75H-10, 10-24 THD, .85

BIRNABACH 4238 TRANSMITTER LEAD-IN INSULATOR, threaded rod w/two 2x1 cones; adjustable length between cones. 15" L, 2 lbs. \$1.95

STK. #3G584 IN-64 FEED-THRU CONICAL SHAPE, 5" LG. O/A; 2 CONICAL SHAPED 1-1/8 LG. 1 1/2 DIA. AT BOTTOM, 1" AT TOP, 1/4" DIA. ROD WITH 1/4 20 THREAD WITH NUTS/WASHERS 2 LB. 25¢ EA. 5 FOR \$1.00

GLASS-BONDED MICALEX STRIPS 10"x1"x5/8" Th. Five holes .2" dia. #5G110-160, \$1.50
GE #7102768F1, same as above, 7-3/8"x1 1/2"x3/8" Th. Ten holes, \$3.00 ea.



INSULATOR THREADED BRASS EACH END FOR 1/4" SCREW.
#CLASS 16U-23x1 1/2" \$.22
16U-32x2" \$.3.

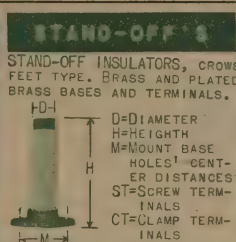
INSULATOR STANDOFF FEED-THRU, THREADED ONE END; 3/8" HOLE. ACE-3"HX1 1/2" \$1.

SPREADER INSULATORS
No. SIZE HOLE PRICE
IN-88 24x4 1/16 25¢
CSJ-61192 4 1/2x3 3/16 35¢

STRAIN INSULATOR
BROWN 24x1 1/2" 1" HOLES EA
END, OPPOSITE SIDES. #3G100
Prices: 79¢ EA. 4 FOR \$3.
Box of 200 \$125.00

ART-13 TRANSMITTER ANTENNA INSULATOR PANEL WITH 32x4 OBLONG INSULATOR WITH TWO SPRING-TYPE BINDING POSTS. ALSO A 2x1 AND A 2x2 CONICAL INSULATORS WITH PUSH-TYPE BINDING POSTS. WT: 1 LB. COMPLETE ASSY. USED \$1.00

STAND-OFF INSULATOR
H-12, B-12, A-1, 1/4" BOLT REGR. 1 1/2" HOLE
#PP-1048 NO HARDWARE
3 FOR \$1.00



STAND-OFF INSULATORS, CROWS FEET TYPE. BRASS AND PLATED BRASS BASES AND TERMINALS.

D=DIA. M=HEIGHT
H=HOLE'S CENTER DISTANCES
ST=SCREW TERMINALS
CT=CLAMP TERMINALS

#B-H3-D1.25-ST3, BROWN CER-AMIC; M=2.25" TERM. CAP SIZE: 7/8x5/8" DIA. SHPG. WT: 2 LBS. \$.275

#B-H4-D1.25-ST2, WHITE; M=2.25" TERM. CAP: 1x1-5/8" DIA. 3 LBS. \$.325

#XW-H5-D1-ST, WHITE; M=2.25" TERM. CAP: 1x1-5/8" DIA. 3 LBS. \$.300

#W-H5-D1.25-ST, WHITE; M=2.625" TERM. CAP: 3/8x1 1/2" DIA. 3 LBS. \$.375

#B-H5-D1.25-CT, WHITE; M=2.25" TERM. CAP: 1x1-5/8" DIA. 3 LBS. \$.300

#BL-H6-D1.25-ST2, BLACK PAINT ON BRASS; M=2.625" TERM. CAP: 1x1 1/2" DIA. SHPG. WT: 4 LBS. \$.425

#W-H6-D1.75-NTH, WHITE; M=3.75" NO TERM. CAP. THREADED. 5 LBS. \$.450

#B-H7-D1.25-ST, BROWN; M=2.25" TERM. CAP: 5/8x1-5/8" SHPG. WT: 3 LBS. \$.475

#W-H8-D1.75-NTH, WHITE; M=3.75" NO TERM. CAP. THREADED. 6 LBS. \$.525

FLEXIBLE COUPLING

CERAMIC FLEXIBLE COUPLING
1" dia x 2" for 1" dia shaft. #COON003-2, 45¢ ea

#COON006; 2-5/8" dia x 2", for 3/8" dia shaft. 79¢ ea

#COON009; 2X2 CERAMIC COUPLING for 3/8 dia shaft. 69¢ ea

#COON010; 3 1/2" dia x 1 1/2", for 3/8" dia shaft. \$1.25



SPST MICROSWITCHES 1-7/8x 5/8x1 1/2, 30¢ ea unless otherwise noted. Normally open-n.o. Norm closed-n.c.

#WHBT349A-1 n.o. lever
#YZ-3RITC n.o. lever 15A

#YZ-RS n.o. extended pin
#SW-188 n.o. ext-pin
#WZ-R39 n.o. ext-pin

#2MC3-1A n.c. pin; 1-5/8x 1 1/2 size.
#V3-23 n.o. or #V3-21 n.o. pin; 9/16x1 1/2-3/8 size.

MU-SWITCH Type D in split dye cast housing; 1" tap conduit hub. 17/8x5 1/2x25/50 VAC, new, 75¢

SPDT, one side n.o./other n.c.; 1-7/8x5/8x1 1/2, 40¢ ea

#3Z-3R244T4, pin style
#WHBT349B-1, lever style

#BZ-2R, button w/mtg 50¢
#V3-1 9/16x1 1/2x3/8 size

#BZ2RW30-D5, 3" lever; 15 125/250/480 V 50¢
#EM-3RW30211-A2, 2" high squared hook lever; 22 A 125/250/480 VAC, NEW 60¢

TAP SWITCHES

TAP SWITCHES, 120/240 VAC 10/5 amps unless otherwise noted; 2 1/2" dia. Used.

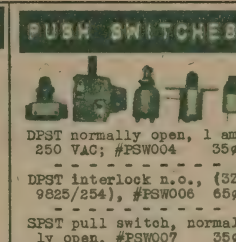
#AHH-23-10; 2-deck 3-pos w/knob \$2.
#AHH-230; 2-deck 3-pos and OFF.

Cont. turn; 15/10 A. No knob; 3/16" d shaft. \$2.25
#AHH-33-10; 3-deck, 3-pos with knob, \$2.50

#AHH-63-10; 6-deck, 3-pos with knob, \$3.50
#AHH-2W-3W 3-pos with OFF. 120/240 VAC 30/15 A (2-wire), 15/15 amp (3-wire). 1-7/8x1 1/2x1 1/2, 2 lbs sh. Used w/knob \$2.50

ORHMT 312-8 TAP SWITCH, 8 taps rated 25 amps AC 300 volts, 150 V between taps. Shaft 5/8x1 1/2 dia; o/a 2 1/2x2 1/2, 3 lbs. \$4.50

ES TAP SWITCH, 60 amp 500 VAC/250 DC 4-position 2-deck, 6 cont/deck. Pos 1 makes cont 2-3, P2 (1-2-4), P3 (1-5), P4 (1-2-6). 5 1/2x2 1/2x4, 10 lb ES#125402A, unused \$16.95



DPST normally open, 1 amp 250 VAC; #PSW004 35¢
#PSW005 35¢
#PSW006 65¢

DPST interlock n.o., (3Z-9225/254), #PSW006 65¢

SPST pull switch, normally open, #PSW007 35¢

SPST normally closed case ground; #PSW008 35¢

SPST normally closed, Grayhill #4002 50¢

2-BUTTON momentary; red breaks, black makes. 3/4x 1-5/8x1-1/8; #RB-EM \$1.50

TANDEM 2-CIRCUIT PUSH SWITCHES, each momentary n.o./n.c.; 3-1/8x1-7/8x1 1/2; GE#5749715-G2, \$2.50

2-CIRCUIT 2-BREAK 1-position mom.; 440 VAC 1.25A/250 VDC 0.625A. 1-7/8x 1 1/2x2; #296-6647, \$1.50

2-CIRCUIT BREAK/MAKE momentary; 2 1/2x2 1/2. #56733-3750, \$1.75

FOOT SWITCH

DUAL FOOT PEDAL SWITCH, 20 amp norm. open. Depress pedal to make; release to break. With 7' 3-concd. heavy cord. 4x4 1/2x1 1/2, 4 lbs. #LR-FP, \$6.95

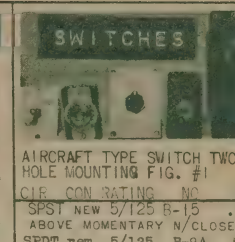
FIVE-PUSH SWITCH 2PST NORM. GL. 1PST NORM. OP. 1PST. 5x3x1 #PSW5022 \$1.00

MINIATURE SWITCHES, all new. Black: blk. White: wh.

DPDT on-on, blk. or wh button (a); C&K #8221, 65¢
SPDT on-off-on, wh. toggle (b); Alco #M106Z, 75¢

DPDT on-on, blk. toggle (b) C&K #U21, 65¢
SPDT on-on, blk. rocker (c) JBT #R2-123, 65¢

SPDT on-on, wh. rocker (d); C&K #7101, 60¢
SPST red or wh. tog. (e), not mini. #CH381K22 60¢
SPDT mini-toggle, baton throw; on-on. #7101T 65¢



AIRCRAFT TYPE SWITCH TWO HOLE MOUNTING FIG. #1

CIR CON RATING NO FR
SPST new 5/125 B-15 .65
ABOVE MOMENTARY N/CLOSED
SPST rem 5/125 B-9A .50
(above center-off)
SPST new 15/125 B-1B .30

SPOT REM 5/125 B-7A .55
(CENTER OFF, MOM ONE SIDE)

TOGGLE SWITCHES

TOGGLE SWITCHES SMALL HOLE MOUNTINGS: CONDITION NEW & "REM" REMOVED FROM EQUIPMENT, ALL GUARANTEED.

CIR CON RATING NO FR
SPST rem 8/125 88T/R2 .35
(ABOVE SWITCH MOMENTARY)
SPST rem 6/125 SW-10CN .30

SPOT REM 8/125 ST-13D .25
(P/N) BOTH SIDES
DPST rem 3/125 746S54 .25
DPST rem 10/125 ST-65K .40

DPST rem 3/125 SW-123 .30
DPST rem 5/125 ST-22R .35
SPST new 15/125 SW-115 1.00
4PST new 15/125 766K5 1.00

TEN PUSH SWITCH STRIP EACH D.P.D.T. INDIVIDUAL HOLD OR COLLECTIVE OR RELEASE, NEW 12x4x3/4; NO.4C5231 \$2.25

ROCKER SWITCHES
0319 SPST
39¢ 3 FOR \$1.00

0348 DPDT
59¢ 2 FOR \$1.00

0320 SPDT MOMENTARY BOTH SIDES. 65¢ EA. 2 FOR \$1.20

0347 DPDT MOMENTARY BOTH SIDES. 80¢ EA. 2 FOR \$1.50

PUSH BUTTON SELECTOR

WHITE BUTTONS, 1 THRU 4 SEPARATE CONTACTS, 5, 6, 7 MAKE 2, 3, 4 RESPECTIVELY W/COMMON RED BUTTON RELEASES ALL. RATED @ 120/240VAC 8A; Size: 4 1/2x1 1/2x2; 2" LBS. GE#SP8128-417 UNUSED \$.75

LEVER SWITCHES
4PDT one side 2PDT OTHER SIDE, BOTH SIDES MOM. #1155 NEW \$2.00
TV-2 tube test PL lever sw; make 2 break 2. Removed \$2.
2PDT ONE SIDE, OTHER 2 MAKE
P/O EE-2, USED \$1.00
8PDT & 4MAKE MOM. ONE SIDE OTHER SIDE ONE BREAK HOLO. CENTER OFF. SW-1323 USED \$1.
4PST EA. SIDE NORM. OPEN & HOLD, CTR. OFF. #329818-9.1 N22.
2PDT ea. side of switch, no center off. SE#649-31 \$2
SPST make before break and 2/SPST normally closed; single hole mount. Tele-type #129596 (PSN #5930-259-6880), unused, \$1.50
2PST ONE SIDE ONLY HOLD, CTR OFF, ONE HOLE MTG. SWITCHCRAFT 513148 NEW \$1

EQUIPMENT BLOWERS



18 VDC 2400 RPM 5-BLADE FAN removed from oscilloscope; runs well on 6 VDC. 7" dia blade rotation; o/a 6 1/2" dia x 5 1/2" depth. Includes eight single TO-3 heatinks; 8 lbs sh. #B401/USM, used, \$16.95

TRC-29 KITTER BLOWER, 200 CFM, 115 VAC 60 Hz 1.2 amp @ 3300 RPM. 4-5/8" dia inlet; outlet 2 1/2". Motor mount. With 10 metal capacitor. Overall: 6x9x8, 12 lbs. Used \$14.95



TORRINGTON BLOWER, 200 CFM 220 V 3000 RPM (100 CFM 115 VAC 1500 RPM). 4" dia intake; 2 1/2" out. Out let mtg 4" dia. O/A 7x7x7 1/2, 10 lb Torrington #A13980, unused \$18.95



EASTERN AIR TWO SPEED BLOWER, 2800/3200 RPM capacitor-start motor 1/40 HP 0.58 amp 115/230 VAC 50/60 Hz. Mounted on base w/4 mfd capacitor, terminal strips. Approx 150 CFM. Intake 3" dia, outlet 1 1/2". O/A 6 1/2x11x6 1/2, 14 lbs sh wt. EAD/B747M1-C, used, \$12.95



FASCO DUAL BLOWER 50 C.F.M. 115 VAC 60 Hz 0.74 amp @ 2800 RPM. Outlets 2x1-5/8. One outlet is parallel to mounting base; other is at 90°, but can be modified as shown in picture. Inlets 2 1/2" dia. Overall 7 1/2x6 1/2x5 1/2, 12 lbs sh. Fasco type 21, #127S217, unused, \$10.00



ORDANANCE BLOWER 6 VOLTS DC, approx 150 CFM with turbine-type impeller. Intake 3", outlet 1" dia. Overall size: 6 1/2x6 1/2x4, 7 lbs sh wt. ORD#G486392, unused, \$7.95



115 VAC BLOWER, 1 1/2" dia hose to 115 V solenoid reverses intake/outtake. Possible use with air brush. 6"x8" dia, 12 lbs. Used. #3M-CFB, \$15. Less solenoid \$12.



5-BLADE 7" DIA FAN in 7 1/2" dia X 6" h housing; 115 VAC 60 Hz. Can probably be adapted to duct fan. With 2 mfd capacitor; 9 lbs sh. #14-20/5B-DF, used, \$14.95



4-BLADE 6" DIA FAN in conical 7 1/2" to 5-3/8" dia X 7" high housing; 115 VAC 60 Hz. Adapt to use as duct fan. 8 lbs sh. #3M/4B-DF, used, \$9.95



FAN-TYPE BLOWER, 115 VAC 60 Hz 20 watts; 4" plastic fan blades. Open frame low-noise motor in metal case-mount-type frame. Approximately 100 CFM. 13x5x2, 5 lbs sh. Howard #1075-3102, used, \$4.50



HEATSINKS
9x4x1 1/8" ALUMINUM. DRILLED FOR 3/16". #31341. UNUSED \$2.75
12x3x1 1/2" aluminum w/3 or 4 TO-3 transistors. #HS-HSB used \$3.95



BLACK TAB MTG HEATSINK WITH 2/283055 OR EQUAL W/HOWR INSULATOR RESISTORS
4x3x1 1/8x2 1/2 (4 7/8) TOTAL #HS/21 REMOVED \$2.00



#HSW/IT. SIMILAR TO ABOVE BUT WITH ONE TRANS. SIZE: 3-1/8x2-7/8x1-1/8. \$.85 EA. 4 FOR \$3.
THIS, SIMILAR TO ABOVE; NO TRANS., 2 FOR \$1.



#DHS. SAME AS ABOVE, ANODIZED DRILLED FOR DO-4 DIODES. 3-7/8x2x1-1/8, 2 FOR \$1.00



DUAL TO-36 HEATSINK, 3x3 1/2x1-3/8; flange mounting. #HS7036, \$.75 each or 3 for \$1.00
#SD523-8 HEATSINK, 5x3x1-9/16; drilled for 3 large stud rectifiers (1" dia recesses), \$.2



#BD734 HEATSINK, 7x4x2 1/2, drilled with two 25/32" dia. holes. 3 lbs sh. Unused, \$3.50
SERIES 680 HEATSINKS, 1 1/2" sq. NEW #1.00-5-5, 1" high with 0.35" dia. hole for rectifier, 85¢ ea.
#75A-16-1, 0.75" high for TO-3 transistor, 75¢ ea.

COMPACT AXIAL FANS



AXIAL FANS, 4 1/2" square X 1 1/2" thick; 115 VAC 60 Hz. Removed from equipment; guaranteed. Rotron MUFFIN or similar; 3-blade 14W \$11.



5-BLADE axial fan in metal frame; 18 watts. Various manufacturers, used, \$12.
IMC BOKER FAN, 220/240 VAC 50/60 Hz 0.1 amp; 5-blade in metal housing, \$11.95
ROTRON BTA-1 DISCUTTER, right angle 1"x2" out-take; 115 VAC 50/60 Hz 16 watts, \$12.95



ROTRON MODEL SURAS
Small 3-1/8x3-1/8x1-5/8 size. Seven blade plastic fan in die cast housing. 115 VAC 60 Hz. 2 lbs. sh. NEW, \$12.95



FIVE BLADE COOLING FAN, 4-5/8" dia. rotational no enclosure. Mounting bracket hole centers 5-7/8" apart. 115 VAC 60 Hz. 2 lbs. sh. Airtrol #11-2100, NEW, \$4.95



OPEN FRAME COOLING FANS, 115 VAC 60 Hz; metal or nylon blades. Removed from equipment.



#NCR-50, 5" blade rotation, \$3.50

HEATSINK ASSEMBLIES



LARGE HEATSINK BANK consisting of five 1 1/2"x1 1/2"x1 1/2" heatsinks and 19 transistors similar to 2N3055's. Assembly originally part of 4 V. 75 amp power supply. Use as-is or dismantle for parts. O/A 13x5x1 1/2, 12 lbs sh. Removed f/equip. #HSB4-75, \$16.95

#75-4-2400 SERIES 400 HEATSINK with two 1 1/2" dia. power rectifiers at least 100 PIV 100 amp each. Size: 5x5x6 w/1-5/8" fins. 8 lbs. sh. Removed, \$15.
#75-4-4003 SERIES 400 HEATSINK with 7/8" dia. SCR at least 100 PIV 100 amps. Size: 5x5x4, 4 lbs. sh. Removed, \$5.95



SCR CROWBAR CIRCUIT, consists of 40RC35 SCR rated 1; 63 A 50 V-max. mounted with thermal switch and two resistors. Potted assembly has trigger voltage adjust 4-7 V. Use with 5 V supplies for overvoltage protection or modify for other uses. #CRBR-40, NEW, \$4.95



MILITARY TEST SETS
AN/FM-3 SWEEP GEN. 15-400 Mhz AM-FM, \$295.
AN/URM-25 SUMMATION BRIDGE with attenuator kit, 1 to 4 Ghz 5 mw-5 watts, \$100.00
AN/URM-76 TEST METER for AN/ARC-34, \$50.00
FR-4/URM-79 FREQ. METER, 100 Khz-20 Mhz, \$75
FR-5/URM-80 FREQ. METER, 10-100 Mhz, \$75.00
FR-6/URM-81 FREQ. METER, 100-500 Mhz, \$85.00
FR-38/USM-26 COUNTER, like HP-5248, \$125.00
SG-299 SQUARE WAVE GENERATOR, 1 Hz-1 Mhz \$45
FR-114/TSM-16 FREQUENCY METER w/6-NIXIE tube readout, 20 Hz-1 Mhz; 70 lbs sh. \$65.00
TV-7D/TUBE CHECKER, used-checked, \$85.00
TV-10/TUBE CHECKER, used-checked, \$60.00



SG-321 LOW FREQUENCY FUNCTION GENERATOR, .008 to 1200 Hz square, triangular, or sine wave in five multiplier ranges. Max. output: 33 p.p.p. Synchron pulse 22.5 V peak neg., less than 5 u-sec duration. Internal impedance: 40 ohms. Output balanced or single-ended. 18 tubes. Requires 115/230 VAC 50-400 Hz. 12x19x14, 65 lbs sh. Unused, \$55.00



HEWLETT-PACKARD

HEWLETT-PACKARD TEST METERS, used-complete; add \$30 for "checked" price. Manuals, \$7.50 each when purchased with a meter.

HP-400D VTVM, 0.0001 to 300 V-rms in twelve ranges; -50 to +60 db. 10 Hz-4 Mhz response. 23 lbs sh. Repairable, \$65.00
HP-400DR, same as above, except rackmount; 30 lbs. \$60.
HP-400HR, similar to "DR" but twice as accurate plus a 5" mirrored scale; 30 lbs. \$75.



HP-412AR DC VOLTMETER, 1 mv to 1000 VDC in 13 ranges. Also 1 microamp to 1 amp and 1 ohm to 100 megohms. 1% design accuracy. Has mirrored scale; rackmount. 25 lbs sh. \$100.00
HP-413AR DC NULL VOLTMETER, has thirteen zero-centered ranges from 1 mv to 1000 VDC plus expanded scale. Rackmount; 18 lbs. \$75.
HP-425AR DC MICROVOLT-AMMETER, 1 uv to 1 V and 1 p-amp to 3 ma; 28 lbs. Checked, \$160.

HP-430C MICROWAVE POWER METER designed for frequencies up to 40 Ghz and as low as 10 Mhz when used with proper thermister mount. Power readings from 0.1 to 10 MW; -20 to +10 db. See 4/77 Ham Radio for amateur usage. 21 lbs sh. Used, no thermister mt., \$45.00



FLUKE 803D AC-DC DIFFERENTIAL VOLT/METER, 0.1 to 500 volts AC-DC. Designed accuracy: 0.2% (AC), 0.05% (DC), AC response 20 Hz to 10 Khz. Requires 115 VAC 60 Hz. 12x19x16, 35 lbs sh wt. Used, repairable, \$59.50

HEWLETT-PACKARD 650A TEST OSCILLATOR for 10 Hz to 10 Mhz in six ranges. Output 30 mv to 30 volts; 600 ohm impedance. Output attenuator 0-50 db in 10 db steps, flat 1 db throughout range. 10x19x15, 48 lbs sh. Used, repairable, \$95.00; Cabinet for 650A, add \$10. Manual, \$6.50 w/purchase.



COMMERCIAL TEST EQUIPMENT, used-repairable:
AD-YU 206A Microwave Phase and Time Detector 1100-6000 Mhz with adapters and book, \$350.
BOONTON 202T AM-FM GENERATOR, 185-270 M \$295
HEWLETT-PACKARD 180B Scope, DC-450 KHz, \$135
H-P 202A Function Generator, \$85.00
H-P 212A Pulse Generator, \$80.00
H-P 310A Wave Analyzer, \$350.00
H-P 431B Power Meter w/o thermister, \$110.00
H-P 608ER AM Generator, 10-480 Mhz, \$695.00
H-P 740A DC Standard Differential VM, \$350.
GENERAL RADIO 544B Megohm Bridge, \$99.50
GR-716B Capacitance Bridge to 1.1 uF, \$100.
GR-740B Capacitance Test Bridge, \$85.00
GR-1021 Signal Generator, 250-920 Mhz, \$175.
GR-1652A Resistance Limit Bridge, \$115.00
MEASUREMENTS 65B Generator, 0.75-30 Mhz, \$99.
NORTH ATLANTIC VM301 Phase Angle Meter, \$150
PHAZOR 100A Null Meter, \$40.00
TEKTRONIX 105 Square-Wave Generator, \$99.95

2400-3400 MHZ WAVEMETER

TS-117/GP WAVEMETER TEST SET designed for frequency measurements between 2400 and 3400 Mhz. Used to measure antenna radiation, local oscillator frequencies, relative field strength, and relative output. G from 1600 to 2000. Includes 50 u-ammeter, sensitivity vernier, and frequency micrometer with conversion tables. Accessories AS-25 directive antenna, UG-183 cable, UG-57 and UG-131 adapters and transit case. Uses N connectors. 5x5x15, 15 lbs sh. Used, complete, \$39.95
Less accessories, \$29.95



SIGNAL GENERATORS

HEWLETT-PACKARD 606A, 50 KHz to 60 MHz AM in six bands. Output: 0.1 uv to 3 volts into 50 ohms, vernier and step controlled. Features constant output and modulation and low distortion. 10 $\frac{1}{2}$ xl9xl3 $\frac{1}{2}$, 50 lbs sh. Used, checked, \$795.00

TS-416/URM-49, 400-1000 MHz AM, CW, pulse. Output: 0.2 to 200K uv into 50 ohms. 12 $\frac{1}{2}$ xl7 $\frac{1}{2}$ xl3 $\frac{1}{2}$, 70 lbs sh. Used, repairable, \$175.00

TS-419/URM-64, 900-2100 MHz CW and pulse. 1 MW max. into 50 ohms. Repetition rate between 40 and 4000 pulse/sec. Delay: 3 to 300 u-sec. 14xl7 $\frac{1}{2}$ xl11, 50 lbs sh. Used, repairable, \$165.

TS-403/URM-61, 1.6-4.2 GHz CW, FM, pulse. 1 MW into 50 ohms. Similar to HP-616B. 17 $\frac{1}{2}$ xl3 $\frac{1}{2}$ xl3 $\frac{1}{2}$, 65 lbs sh. Used, repairable, \$185.00

DISTORTION ANALYZER

HEWLETT-PACKARD DISTORTION ANALYZER MODEL 3308R. WILL GIVE QUICK ACCURATE MEASUREMENTS OF DISTORTION AS LOW AS 0.1% AT ANY FREQ FROM 20 cps to 20,000 cps. IT WILL MAKE NOISE MEASUREMENTS OF VOLTAGES AS SMALL AS 100 MICROVOLTS. THE ANALYZER HAS HIGH SENSITIVITY AND HIGH STABILITY. ITS CIRCUIT 20 DB AMPLIFIER, OSCILLOSCOPE TERMINALS, AND PRECISION VACUUM TUBE VOLTMETER WHICH IS USEABLE SEPARATELY. EXCEPTIONALLY USEFUL FOR ALL KINDS OF AUDIO MEASUREMENTS IN RECORDING, BROADCAST, MOTION PICTURE, LABORATORY ETC. SIZE: 8 $\frac{1}{2}$ xl9 $\frac{1}{2}$ xl3 $\frac{1}{2}$ (RACK MOUNT) WT: SHPG. 40 LBS. PRICES: USED REPAIRABLE \$185, CHECKED \$225.

TS-723-C SPECTRUM ANALYZER, MILITARY VERSION OF HP-3308R; USED, REP, \$165. CHECKED, \$210

FM SIGNAL GENERATORS

BOONTON (HP) 802H AM-FM GENERATOR, 54-318 MHz in two bands. Output: 0.1 uv to 200 mv into 50 ohms. 0-50% internal AM; FM deviation 0-250 KHz in 4 ranges. 10 $\frac{1}{2}$ xl6 $\frac{1}{2}$ xl8, 56 lbs sh. Used, repairable, \$365.

BOONTON 207H UNIVAR, adds 100 KHz-50 MHz range to 202H, \$75 w/202H purchase. MANUAL for 202H and 207H, \$12 w/set purchase.

MARCONI TF1066B/1, 10-470 MHz AM-FM in five bands. Output: 0.2 uv to 200 mv. Modulation 1 or 5 KHz; FM deviation scales -20 and -100 KHz. 14xl9 $\frac{1}{2}$, 50 lbs sh. Used, repairable: rackmt \$465.; cabinet \$485.

AUDIO OSCILLATOR

TS-382-AUDIO OSCILLATOR, 20 Hz to 20 KHz in FOUR BANDS. OUTPUT: 0 TO 10 VOLTS ACROSS 1000 OHMS. WITH BUILT-IN 60 AND 400 HZ REED FREQUENCY METER. SIZE: 10x12 $\frac{1}{2}$ xl8 $\frac{1}{2}$, SHPG. WT: 50 LBS. NET: 45 LBS. PRICE: USED, REPAIRABLE, \$49.50. CHECKED, \$65.

TS-382F AUDIO OSCILLATOR, MOST RECENT VERSION TS-382. USED, REPAIRABLE, \$60. CHECKED, \$75. TRANSIT CASE F/TS-382F, USED, \$10.00.

50 TO 400 MHZ FM

SG-3/URM-70 FM SIGNAL GENERATOR, 50-400 MHz in three bands. Internal modulation $\times$ 1000, 1600, or 20000 Hz. External: 250 to 75 KHz. FM deviation: 0-15-75-150 KHz (50-100 KHz), 0-30-150-300 KHz (100-200 Mhz), and 0-60-300-600 KHz (200-400 Mhz). Output: 0.1 to 100K u-volts, -25%. 50 ohm output. Power required: 115 VAC 60 Hz. 15xl1 $\frac{1}{2}$ xl17 $\frac{1}{2}$; 80 lbs sh. Used, repairable, \$285.00. Checked, \$295. MANUAL, partial repro, \$10.

KLYSTRON POWER SUPPLY

HEWLETT-PACKARD 715A KLYSTRON POWER SUPPLY for low power klystron tubes. Output -250 to -400 VDC regulated 50 to 50 ma for the beam electrodes and 0-900 VDC regulated for the reflector electrode. Reflector volts can be modulated by internal 1 KHz square wave or externally; square wave modulation adjustable up to 120 V peak-to-peak. Frequency modulation for 60 Hz sine wave 0-350 V p-p. Requires 115/230 VAC 50-60 Hz. 7 $\frac{1}{2}$ xl1 $\frac{1}{2}$ xl3 $\frac{1}{2}$, 26 lbs sh. Used, with output cable, \$49.50; Less, output cable, \$39.50

VOLTMETER-VLF RECEIVER

ME-71/FCC AUDIO LEVEL METER, COVERS 20 TO 500 KHz CONTINUOUSLY TUNABLE. AS SELECTIVE DETECTOR, IT MEASURES RF CARRIER ACROSS A 135 OHM BALANCED OR 600 OHM UNBALANCED LINE. VARIABLE ATTENUATOR PROVIDES INPUT SENSITIVITIES FROM -70 TO -42 DBM INDICATED ON 3 $\frac{1}{2}$ " DIA. METER. INCLUDES 100 KHz CALIBRATOR, INPUT IMPEDANCE: 10K OHMS. AUDIO GAIN AND TWO PHONE JACKS. VARIOUS MODELS ("C" PICTURED). POWER REQUIRED: 115 VAC 60 Hz. 17 $\frac{1}{2}$ xl4x9; 40 LBS SH. ME-71, w/NATIONAL-TYPE DIALS USED, \$40.00. ME-71B, USED, REPAIRABLE, \$45. ME-71C, \$50. OPERATIONAL, ADD \$30. MANUAL, REPRO, \$8.50

FM SIGNAL GENERATOR

SG-12/URM- FM SIGNAL GENERATOR, 19.5 TO 102 MHz FM IN FIVE BANDS WITH DEVIATION RANGES 0 TO 25, 50, AND 100 KHz; 1000 HZ MODULATION. ALSO IF OUTPUTS ON 1.4, 2.515, 2.65, 2.88, 4.3, 4.45, 5.0, 5.35, 15 MHz, PLUS TWO SPARE POSITIONS. CALIBRATED OUTPUT VOLTAGES: 0.5 UV TO .01 VOLTS (RF); 0.5 UV TO 1.0 V (IF). OUTPUT IMPEDANCES: 10 OHMS (RF); 25 OHMS (IF). WITH 1 MHz AND/OR 2 MHz CRYSTAL CALIBRATOR MARKERS. POWER REQUIRED: 115/230 VAC 50-1000 Hz. SIZE: 12xl8xl2; SHPG WT: 85 LBS. Used-repairable, \$165; \$100; Checked, \$265; \$165. MANUAL for SG-12, partial reproduction, \$12.

10 KHZ TO 50 MHZ

AN/URM-25F SIGNAL GENERATOR, covers 10 KHz to 50 MHz AM in nine bands. RF output: 0.1 to 100K microvolts into 50 ohms; 2 V adjustable across high load impedance. Modulation 0-50%, 400 or 1000 Hz internal. 1 MHz calibration: designed accuracy $\pm$ 0.05% above 10 MHz. Requires 115 VAC 50-100 Hz. 11 $\frac{1}{2}$ xl4xl0 $\frac{1}{2}$, 44 lbs. Used, repairable, \$145. Checked, \$210.00

ACCESSORIES available w/purchase of URM-25F: BOCK-partial repro, \$10. DA-109 Dummy Load \$6. CX-2919 Test Lead Adapter, \$7.50. CU-406 Impedance Matcher, 500 ohms up, \$7.50. CU-408 Impedance Matcher, 700 ohms, \$7.50. RNC Cables, 6", \$1.00; 4 feet, \$1.50

SPECIAL SALE KTVH's!

VACUUM TUBE VOLTMETERS at reduced prices due to special quantity purchase. All are used.

TS-505/U, ranges 0 to 2.5, 5-10-25-50-100-250-500 Vrms plus 1000 VDC scale. Also 1 $\frac{1}{2}$ thru 1 $\frac{1}{2}$ Megohm ranges. Response: 30 Hz to 5 MHz. With AC, DC, and ohm probes. 9 $\frac{1}{2}$ xl9 $\frac{1}{2}$, 17 lbs. Repairable \$40. NOW \$25. Checked, \$40. 500 MHz probe \$10 w/purchase. Manual, partial repro, \$8.50

HEWLETT-PACKARD 410B, features 20 Hz to 700 MHz response with full scale ranges 1-3-10-30-100 and 300 Vrms plus 1000 VDC. Resistance scales 1 $\frac{1}{2}$ thru 1 $\frac{1}{2}$ Meg. High frequency AC probe has E453/2-01C tube. 11 $\frac{1}{2}$ xl7 $\frac{1}{2}$ xl8 $\frac{1}{2}$, 15 lbs sh. Repairable, \$59.50. NOW \$39.50. Checked, \$109.50. Manual, \$8.50 with set purchase.

ME-180/USM-116, similar electrically to the HP-410B, set has added 0.02 to 1000 MA DC feature. Response to 100 MHz with AC probe and to 700 MHz with optional T-conductor accessory. AC probe uses 6925A E452 tube. 7 $\frac{1}{2}$ xl9 $\frac{1}{2}$ xl8 $\frac{1}{2}$, 21 lbs sh. Repairable, \$35.50. Checked, \$55.50. Manual, \$10 w/set. Manual, par-repro \$10

0.1-10 KHZ FREQ METER

TS-186/UP FREQUENCY METER, measures frequencies from 100 MHz to 10 GHz using harmonics of a 50-1250 MHz heterodyne oscillator. Zero beat dial readings are interpolated into frequencies via a calibration book. Zero beat indicated on an 0-1 milliammeter or monitored through a 600 ohm headphone jack. RF signal input must be from 500 MV to 1 V for proper use. With tubes 2C40, 955, 5Y3, 2/0B3, and 5/6J37. Power required: 115 VAC 50-1000 Hz. 9 $\frac{1}{2}$ xl8 $\frac{1}{2}$ xl20; 48 lbs sh. Used, repairable, \$95; \$75; Checked, \$165; \$110. MANUAL f/TS-186, partial reproduction, \$8.50

TRANSISTORIZED SCOPE

OS-106/USM-117 TRANSISTORIZED OSCILLOSCOPE, DC to 5 MHz bandwidth, 4QF2 rectangular CRT, and is very compact. Includes MX-2996 high gain vertical plug-in plus dual-trace capabilities when used with MX-2995 plug-in (not available). Sweep range: 0.1 u-sec to 0.1 sec in 19 calibrated steps in 1, 2, 5, 10 sequence. Vertical sensitivity: 0.01 v/div to 0.2 v/div in 11 calibrated steps in 1, 2, 5, 10 sequence, variable to 50 v/div. Input impedance: 1 Mohm shunted by 47 pf. Calibrator generates 1-KHz square wave at either 0.04 or 0.4 V p-p. Probe and cover not available. Requires 115 VAC 50-60 Hz or 400 Hz. 8 $\frac{1}{2}$ xl9 $\frac{1}{2}$ xl4 $\frac{1}{2}$; 28 lbs. Used, repairable, \$185.00. Checked, \$285. MANUAL, repro, \$15 w/purchase.

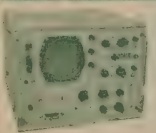
PSM-6 MULTIMETER

AN/PSM-6 MULTIMETER, rugged compact unit 4 $\frac{1}{2}$ " dia. 50 microamp meter. Ranges 0.5-2.5-10-50-250-1000 VDC (1K ohm/v or 20K ohm/v) and VAC; 100 microamps to 1 amp DC. Also ohms multipliers scales 1 thru 10K ohms. Readings to 5000 VDC and 10 amps possible when used with accessory adaptors which are not available. Requires 13.4 VDC battery tapped at 1.34 V. With test leads. 8 $\frac{1}{2}$ xl7 $\frac{1}{2}$ xl4 $\frac{1}{2}$, 18 lbs sh wt. Used, repairable, \$45.00; checked, \$65.00

PULSE GENERATOR

RUTHERFORD B7F PULSE GENERATOR with 2 Hz to 2 MHz repetition rate in five bands. Pulse delay: 0.0 to 10K u-sec. Width: 0.05 to 10K u-sec. Pulse output 50 V min. into 50 ohm load, positive or negative. Rise/fall time 0.015 u-sec. Sync pulse out 10 V min., 0.05 u-sec width; 0.03 u-sec risetime, positive polarity. Requires 115 VAC 50-60 Hz. 8 $\frac{1}{2}$ xl9 $\frac{1}{2}$ xl3 $\frac{1}{2}$, 50 lbs sh wt. Used, repairable, \$75.00

DUAL-TRACE PRICE-CUTS



AN/USM-140C OSCILLOSCOPE, DC to 30 MHz MAINFRAME, SIMILAR TO H-P 170A. INCLUDES MX-2930 DUAL-TRACE VERTICAL PLUG-IN WITH DC TO 22 MHz PASSBAND. INPUT IMPEDANCE: 1 MEG-OHM SHUNTED BY 30 P. INPUT SENSITIVITY: 0.02 VOLT/CM TO 20 V./CM. FUNCTIONS: CHANNEL A, CHOPPED, A-B, AND ALTERNATE. HORIZONTAL MX-3078 PLUG-IN SWEEP RATE: 0.1 U-SEC/CM TO 5 SEC/CM. HORIZ. SENSITIVITY: 0.1 V/CM TO 10 V/CM. MAGNIFIER X1 TO X100 IN SEVEN STEPS. CALIBRATOR: 0.2 MV TO 100 V. IN NINE RANGES. POWER REQUIRED: 115/230 VAC 50-1000 Hz. Size: 14x19x22; SHWG. WT: 110 LBS. PRICE: USED, REPAIRABLE, \$195. CHECKED, \$295. PRO-LOG M900 FROM PROGRAMMER with modules TAPCOILA (170A), TAPCOIS (270A/270B), and FM-9052 (2716): book included, Used, \$99.00

OS-8 OSCILLOSCOPE

OS-8/U OSCILLOSCOPE WITH SRPI CRT HIGHLY PORTABLE UNIT HAS DC TO 2 MHz VERTICAL RESPONSE; DC TO 500 KHz HORIZONTAL. VERTICAL AND HORIZONTAL SENSITIVITY: 0.075 V-RMS FOR 1" DEFLECTION. SWEEP RANGE: 3 TO 50 KHz. INPUT IMPEDANCE: 9 MEGOHMS SHUNTED BY 11 MMF (DC). DIRECT ACCESS TO VERTICAL AND HORIZONTAL PLATES. POWER REQUIRED: 115 VAC 50-1000 Hz. SIZE: 9x6x13; SH WT: 20 LBS. PRICE: USED, REPAIRABLE, \$44.50; CHKD. \$69.50

MANUAL for OS-8, partial reproduction, \$8.50

DUMONT 304A SCOPE

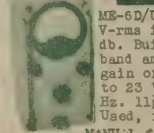
DUMONT 304A OSCILLOSCOPE, has big 5" CRT (5CPI). DC to 100 KHz response; usable to 300 KHz. 100 MV full scale vertical sensitivity. Sweep: 2-30 KHz. Max. sweep rate: 1" per u-sec. Input impedance: 2 megohms paralleled by 50 pf. Graticule not included. Power required: 115/230 VAC 50-60 Hz 9x13x19; 65 lbs. sh. Used, repairable, \$45. 304A SCOPE shipped with 56P7 CRT, \$49.50 DUMONT 304A SCOPE, same as "H" model, but uses 5ADP1 flat-faced CRT. Used, rep., \$50. MANUAL for 304A or H, partial repro., \$8.50

SCOPE FOUNDATION



TS-1273 OSCILLOSCOPE, originally the display unit for a radar test set, but appears to be a good foundation for a compact scope. Features a 3" sq. flat-face (4MPL) CRT. 50 Hz-6 MHz response; 0.05 u-sec risetime. Input attenuation ranges: .05, .1, .2, .5, 1, 2, 5, 10, and 20 v/inch. Selectable input imped: 7 megohms (approx) or 75 ohms. Controls for vertical, horizontal, astig., focus, intensity, vert. attenuator, and impedance. With CRT shield, bezel, and tubes 4MPL, 2/1V2, 5/5814, 2/6BQ5. No sweep generator, horiz. amp, or blanking circuits. Requires 250 VDC deflection volts; +1500 and -1500 VDC high voltage originally supplied from internal oscillator type source. Schematic incld. 17x4x8; 12 lbs. sh. Used, w/all tubes, \$30. W/4MPL only, \$25.

ME-50 VOLTMETER

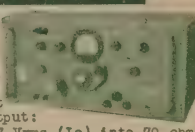


ME-50/V VTM, covers 0.005 to 500 V-rms in six ranges and -65 to 57 db. Built-in 15 Hz-250 KHz wide-band amplifier with max. voltage gain of 4500; minimal distortion to 25 VAC output. 115 VAC 50-400 Hz. 11x16x23; 14 lbs sh wt. Used, repairable \$30. Checked, \$50

MANUAL f/ME-50, partial repro \$8.50

SWEEP GENERATORS

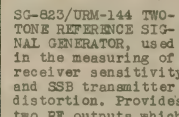
KAY 111A SWEEP GENERATOR, 10-950 Mhz in two bands. Sweep width 50 KHz-40 Mhz continuously variable. Sweep rate variable around 60 Hz; looks at line frequency. RF output: 0.15 Vrms (Hi) or 0.07 Vrms (Lo) into 70 ohm. Sweep output approx. 20 V regular sawtooth. Has micrometer frequency readout and uses two 2K25 tubes in the oscillator. 1919x17; 45 lbs sh. Used-repairable w/good 2K25's, \$65.



SSB TEST EQUIPMENT

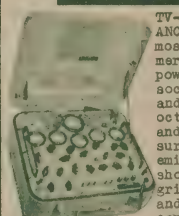


SG-376 TRANSISTORIZED TWO-TONE I.F. SIGNAL GENERATOR for testing SSB equipment. Has two 20 Hz-20 KHz audio oscillators and two independent I.F. oscillators. IF output: 497.5, 498.5, 501.5, or 502.5 KHz only; also 497.5 & 498.5 or 501.5 & 502.5 KHz simultaneously. Output levels: 2-2.5 V into 600 ohms (AF); 1-1.25 V into 50 ohms (IF) with attenuation to 100 db in 1 or 10 db steps. Designed distortion less than 60 db below max signal. Requires 115 VAC 50-450 Hz. 5x19x11; 35 lbs sh. Used-repairable \$135; Chkd., \$195. MANUAL for SG-376, \$7.50 if purchased w/set.



SG-823/URM-144 TWO-TONE REFERENCE SIGNAL GENERATOR, used in the measuring of receiver sensitivity and SSB transmitter distortion. Provides two RF outputs which can be used independently or in combination with no intermodulation effects. Frequency outputs: 2.0, 3.6, 4.0, 7.2, 8.0, 14.4, 18.0, 28.8 Mhz at 100K u-volts max into 50 ohms. Frequency adjust 40.08% (tone A), 40.085% (B). Distortion at least 60 db below max signal. Requires 115 VAC 60 or 400 Hz. 5x19x11; 35 lbs sh wt. Used, repairable, \$125.00; Checked, \$185.00. MANUAL for SG-823, \$7.50 if purchased w/set.

TV-2 TUBE TESTER



TV-2 DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER, checks most military and older commercial receiving and low power emitting tubes. Test sockets for 4, 5, 6, 7-pin, 7- and 9-pin miniature, octal, octal, acorn, sub-mini flat and round tube bases. Measures mutual conductance, emission, gas, noise, and shorts. Meters for filament, grid, plate, screen, signal, and transconductance (percent quality). Theoretically, a tube not listed on the roll data chart can be tested by setting the proper voltages on the meters provided those voltages are known. Requires 115 VAC 50-1600 Hz. 17x2x8; 16x3; 50 lbs sh wt. Used, repairable, \$75.00; Checked, \$110. MANUAL, partial repro., \$10.

FR-149 FREQUENCY METER



FR-149/USM-159 TRANSISTORIZED FREQUENCY METER, covers 125 KHz to 1000 MHz IN THREE RANGES: 125 KHz-2.5 MHz, 2.5-65 MHz, AND 65-1000 MHz. CAN BE USED AS A SIGNAL GENERATOR BY PROVIDING EITHER MODULATED OR UNMODULATED SIGNALS. FREQUENCY FUNDAMENTALS READ DIRECTLY FROM MAGNIFIED AND ILLUMINATED CALIBRATED FILM STRIP AND THEN INTERPOLATED IN ACCOMPANYING CALIBRATION BOOK. OPERATES FROM EITHER SIX "D" CELL BATTERIES OR FROM 115/230 VAC 50-450 Hz. SIZE: 11x11x13; SHWG. WT: 33 LBS. USED, REPAIRABLE, \$99.50. CHECKED, \$150.00

8500-9500 MHZ TEST SET

TS-148/UP SPECTRUM ANALYZER, 8470-9580 Mhz with 3" CRT (3BPL) display. Measures frequencies of cavities, echo boxes, magnetrons, and local oscillators. Receives CW and pulse; transmits CW and FM carrier. 1 MW power output (2K25). Max. spectra dispersion: 1.5 MHz/in. Requires 115 VAC 60 Hz. 19x13x25; 45 lbs sh. Used, \$50.00



AN/UFM-33 TEST SET, includes TS-148/UP, wave guides, horn antenna, cables, transit case, and manual; 80 lbs sh. Used, \$85.00

FR-72 TUNED CAVITY for the 8500-9000 Mhz range. 0-30 u-ammeter indicates stored energy. With 1N-2B3 crystal diode, UG-446 waveguide to N connector adapter, and 8' coax. 16x26x14; 40 lbs sh. Unused, \$34.95

PHASE-TEST SCOPE



MK56 PHASE-TEST SCOPE, essentially an OS-8 oscilloscope modified to check phasing of selsyns and synchros. Major changes are the addition of a phase tune 0-360° dial and enlarged case. Unit has SRPI CRT DC to 2 Mhz vertical, and DC to 500 KHz horizontal response. Sweep: 3 to 50 KHz. Input impedance: 9 megohms shunted by 11 pf. Schematic incld. Requires 115 VAC 50-1000 Hz. 9x9x17; 24 lbs sh. Used, repairable \$55.

ORION AC VTM



ORION V-100M VACUUM TUBE VOLTMETER with 6" X 4 1/2" mirrored scale; similar to Hewlett-Packard 400H. Twelve full scale meter ranges from 0.001 to 300 VAC (rms) or -60 to +50 DB. Response 10 Hz to 4 Mhz. Input impedance 10 megohms shunted by 24 pf (.001-0.3 V) or 14 pf (1-300 VAC). Requires 115/250 VAC 50-1000 Hz. 11x7x14; 22 lbs sh. Used, repairable, \$45. Checked, \$75.

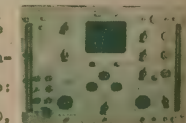
DATA TECH 5313



DIGITAL PANEL METER, 0-20 VDC 3 1/2 digits; Data Tech Model 5313-220. Accuracy: ±0.1% reading plus one count. Input impedance: 10 megohms. Has Sperry 7-segment 0.5" readouts. Also auto polarity, overvoltage protection ±200 V, external control and BOD outputs. Uses standard TTL and linear IC's for easy repair. Manual and schematic included. 4" W x 1-7/8" H x 5 1/2" D. 3 lbs sh. Checked, \$39.50

AN/USM-50 OSCILLOSCOPE

AN/USM-50 OSCILLOSCOPE, 3 Hz to 15 Mhz response with sweep delay and 3ADP1 CRT. Sweep continuously adjustable 0.17 to 37.5K u-sec. Risettime: 0.022 u-sec. Markers at 0.2, 1, 5, 20, 100, 500, 2K u-sec. Vertical input impedance: 1 megohm shunted by 40 pf. Horizontal: 1 megohm shunted by 50 pf. Calibration: 1 KHz adjustable 20-200 mv. External connections possible to vertical plate and horizontal amp. Less probes. 15x19x14; 80 lbs sh. Used, repairable \$75. Checked, \$125. MANUAL, partial reproduction, \$10.00



TS-341/UP SCOPE, 30 Hz to 1 Mhz response with 2AP1 CRT. Risettime: 0.25-30K u-sec. Sweep adjustable in 3 ranges from 10-50000 Hz. Input impedance: 62 ohm (low) or 43K ohms (hi). Input sensitivity: 0.1 to 1 V at low impedance. 6x8x15; 40 lbs sh. Gov't record., \$65. Manual, \$9.50 w/set

TRANSISTORIZED SCOPE



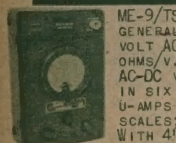
HFE 7421A TRANSISTORIZED OSCILLOSCOPE; ENGLISH MANUFACTURED SCOPE USES PRINTED CIRCUIT CARDS FOR THE PRE-AMP, SIGNAL DEFLECTION AMP, TIME BASE, INTENSITY MOD, AND SWEEP AMP. PROVISIONS ALSO FOR SIGNAL DELAY, TRIGGER PICK-OFF, AND TRIGGER DELAY PC CARDS (NOT AVAILABLE). ESTIMATED FREQUENCY RESPONSE: 300 KHz LIMITED BY DEFLECTION AMP. USED 50P11 CRT; SWEEP IS FROM TOP TO BOTTOM BUT CAN BE CHANGED TO LEFT TO RIGHT. INCLUDES CONTROLS: FOCUS, BRIGHTNESS, ASTIG., SIGNAL SHIFT, INPUT ATTENUATOR (0.1 TO 10 V./DIV. IN 7-STEPS); TIME BASE (1 U-SEC TO 10 M-SEC IN 5-STEPS); MULTIPLIER X.5, X1, AND X2; TIME BASE SHIFT, TIME BASE DEFLECTION (EXT/INT); TRIGGER LEVEL; AND FREE RUN/ SINGLE SHOT. SLIGHTLY BENT FRAME; LESS CASE AND POWER PLUG. POWER REQUIRED: 115 VAC 60 HZ OR 12 VDC 1 AMP. SIZE: 9x17x25, SHPG. WT: 60 LBS. PRICE: USED, REPAIRABLE \$50.00

TELETYPEWRITER SCOPE



TDA-2N TS-1060 TELETYPEWRITER TEST SCOPE, MEASURES BIAS AND DISTORTION OF START-STOP AND SYNCHRONOUS TELEGRAPH SIGNAL ON A 3" CRT. INPUT SPEEDS APPROX. 60 WPM (5 UNIT CODE), 60, 75, 100 WPM 7.42 CODE, AND BAUD SPEED EQUIVALENTS TO 60, 75, 100 WPM (10.42 UNIT CODE). INPUT IMP. 100 OHMS FOR 50MA NEUTRAL; 300 OHMS FOR 20MA NEUTRAL AND 30MA POLAR. MEASUREMENT RANGE 0-50% MARKING, OR SPACING BIAS AND DISTORTION. TUBES: 3KP1, 5651, 0A2, 3/2A17, 6X4, 0B2, 3/5963, 5725. POWER REQUIRED 115/230V 60Hz. 8x8x15 SHPG. WT: 24 LBS. USED REPAIRABLE \$34.95 (FOUNDATION UNIT) LESS C.R. TUBE 24.75

ME-9 MULTIMETER



ME-9/TS-352 MULTIMETER, PORTABLE GENERAL PURPOSE VOLM. 1000 OHMS/VOLTS AC-DC SENSITIVITY OR 20,000 OHMS/V. SENS. DC ONLY. MEASURES AC-DC VOLTS FROM 2.5 TO 1000 V. IN SIX RANGES. DC AMPS FROM 250 U-AMPS TO 10 AMPS IN EIGHT SCALES; OHMS FROM X1 TO X10K. WITH 4 1/2 METER (FS=50 UA); JACK FOR 5000 FOLD @ 20,000 OHMS/V.; AND TEST LEADS. REQUIRES THREE 4 1/2 VDC AND ONE 1/2 VDC BATTERIES (NOT AVAILABLE). SIZE: 11x8x6; SHPG. WT: 17 LBS. USED. PRICE: REPAIRABLE, \$29.95; CHECKED, \$39.95

TS-375/U VACUUM TUBE VOLTMETER, AC VOLTS RANGES FROM 1.2 TO 120 VAC IN SIX STEPS; DC VOLTS FROM 1.2 TO 300 VDC. FREQUENCY RESPONSE FROM PANEL TERMINALS: 40 HZ TO 50 KHz; OR 10 KHz TO 150 Mhz USING PROBES. WITH BOTH AC AND DC PROBES. POWER REQUIRED: 115 VAC 60 HZ. SIZE: 10x10x6; SHPG. WT: 23 LBS. USED. PRICE: REPAIRABLE, \$18.95;



MULTI-PURPOSE TEST SET

AN/TRM-1 SIGNAL GENERATOR, covers 0.19-400 Mhz AM using two RF oscillators SG-32 (0.19-30 Mhz in 5-bands) and SG-33 (30-400 Mhz). Internal modulation 0-60% @ 1 KHz or 200-6000 Hz external. Output: 2.5 to 100K u-volts in nine steps; 50 ohm impedance. Built-in voltmeter measures 0-30-600 VDC, 0-30-300 VAC, and 0-10-100-1000 MW. Also tests performance of 3 to 100 watt transmitters over freq. range when proper coupler and dummy load (not included) is used. Write for availability/price of accessories. Requires 115 VAC 60 HZ. 18x13x8; 65 lbs. Shipped UPS in two cartons. Used, repairable \$135. Checked, \$225. MANUAL, partial repro., \$10.



TEKTRONIX

TEKTRONIX manufactured test equipment removed from service. Sold in "used, repairable" condition. Write for "checked" price. Scopes requiring plug-ins are sold "less plug-in." qty. ltd.

TYPE 531 DC to 15 Mhz, plug-in type, \$150.00
532 DC to 5 Mhz, plug-in type, 125.00
533 DC to 15 Mhz, plug-in type, 165.00
535 DC to 15 Mhz, with sweep delay, plug-in type, \$185. Checked, \$250.
RM25A rackmount 535A, \$205. Chkd., \$265.
536 DC to 10 Mhz X-Y scope w/T plug-in; requires additional plug-in, \$250.
543A DC to 30 Mhz single time base; x100 mag., plug-in type, \$215.00
545 DC to 30 Mhz with sweep delay, plug-in type, \$350. Checked, \$325.
RM45A rackmount 545A, \$265. Chkd., \$340.
551 DUAL-BEAM to 25 Mhz, uses two plug-ins, with ext. power supply, \$295.
555 DUAL BEAM to 30 Mhz w/sweep delay, Type 21 and 32 time base plug-ins, and external power supply; requires two vertical plug-ins, \$350.00
RM561A compact scope w/2567 time base plug-in and choice of 2A60 1 Mhz or 2A63 300 KHz diff. plug-in, \$275.00
575 TRANSISTOR CURVE TRACER SCOPE, \$285.
RM585A DC to 60 Mhz with sweep delay and 82 dual-trace plug-in, \$525.00
661 PULSE SAMPLING SCOPE w/453 dual-trace and 5T1A time base, \$295.00

TEKTRONIX TYPE 82 DUAL-TRACE SCOPE PLUG-IN, DC to 60 Mhz response for 580-series \$175.

TEK TYPE CA DUAL-TRACE, DC to 24 Mhz for 530, 540, and 550-series scopes, \$110.00

Other vertical amp plug-ins for Tektronix scopes and similar ones by other manufacturers. Add \$10 for units of Tektronix manufacture. All "used-repairable":
TYPE B, Wide-band, high-gain, \$35.00
TYPE D, High-gain, DC differential, \$25.00
TYPE E, Low-level, AC differential, \$35.00
TYPE G, Wide-band, DC differential, \$20.00
TEK TYPE 53/54K, Fast-rise, \$45.00
TYPE L, Fast-rise, high-gain, \$55.00
TEK TYPE M, Four-trace, \$175.00
TEK TYPE Q, Transducer/strain gage \$175.00
TEK TYPE T, for 536 scope, \$125.00
TEK TYPE W, High-gain diff/comparator \$175.
TEK 2B67 Time base for 560-series, \$100.00
TEK 5T3 Timing unit for 661 sampler, \$100.



TEKTRONIX 180A TIME-MARK GENERATOR, 14 time-mark intervals from 1 u-sec to 5 seconds to 50 Mhz. Trigger rate freq: 5, 10, & 50 Mhz. Trigger rate freq: 1, 10, 100 Hz and 1, 10, 100 KHz. Power required: 115/230 VAC 50-60 HZ. Size: 13x10x16 1/2. 37 lbs sh. Used, repairable \$75 Used, checked, \$100.00

TEKTRONIX 110 PULSE GENERATOR AND TRIGGER TAKEOFF SYSTEM, 0.25 u-sec risetime, 720 p/s repetition; trigger regenerator output 6 to 10 volts for 220 to 280 u-sec for triggering scopes with slow trigger response. \$125.00
TEKTRONIX 453 SCOPE, dual trace DC to 50 Mhz; compact solid-state unit w/manual, \$995.00



TEKTRONIX 190A CONSTANT-AMPLITUDE SIGNAL GENERATOR with 190A attenuator unit; produces sine waves at constant amplitude in the 350 KHz to 50 Mhz range. Six bands; output continuously variable over entire range. Also 50 KHz position variable over narrow band. Output amplitude variable from 40 mv to 10 v peak-to-peak. 190A attenuator attenuates 0.1, 0.25, 0.5, 1, 2.5, 5, and 10 at nominal impedance of 52 ohms. Requires 115/230 VAC 50-400 HZ. 9x13x11; 30 lbs sh wt. Used-repairable \$145 \$125. Checked \$165 \$145.

FREQUENCY METERS



AN/URM-32 FREQUENCY METER: 125 KC TO 1000 MC IN THREE RANGES, CAN ALSO BE USED AS A SIGNAL GENERATOR WHICH PROVIDES A CHOICE OF MODULATED OR UNMODULATED SIGNALS FOR TESTING AND CALIBRATING RADIO EQUIPMENT. SENSITIVITY WITH AN RF OUTPUT OF .05 MW MINIMUM IS OBTAINED. ACCURACY .01%, RF 100 V MINIMUM ACROSS EXTERNAL 50 OHM RESISTIVE LOAD. FIVE TUBE HETERODYNE TYPE, POWER REQ. 6 VDC 1 AMP. 180 VDC 25 MA., DRY BATTERY OR AC SUPPLY CAN BE USED. METER IS USED TO READ P.S. VOLTAGES. W/CALIBRATION BOOK SIZE: 13x12x13 1/2. WT: 29 LBS.

Price: Used, repairable, \$65. Checked, \$95. 115 VAC 60 HZ power supply, \$20 additional.



LM-21 FREQUENCY METER with AC power supply; Crystal calibrated unit covers 125 to 20,000 KHz in two bands. Design accuracy better than 0.02%. AM modulation 40% at 500 KHz. Output voltage: 250 u-volts min. Output impedance: 600 ohms. With calibration book, 1000 KHz crystal, and tubes 6A7, 76, 77, 2/501. Requires 115 VAC 60 HZ. Size: 8 1/2x8 1/2, 14 lbs sh. (meter); 8x8x18, 15 lbs sh. (power supply). Used, \$24.95 CHECKED, \$50. Set w/RECONDITIONED meter, \$65. POWER INPUT CONNECTOR for meter, \$2.00 each. CONNECTORS (2) for power supply, \$2.00 each. SHOCKMOUNT, \$2.50 MANUAL, \$7.50 METER ONLY, less tubes, xtal, cal-book, \$12.



PLUG-INS FOR HP-524 AND SIMILAR COUNTERS. USED, REP. ADD \$10 FOR HP MFG. MX-1637 10-100 Mhz, \$35. CV-594 100-220 Mhz, \$25. HP-5250 100-500 Mhz, \$125. HP-526A VIDEO AMP, \$40. MX-1636 TIME INTERVAL, \$25.00. HP-526C PERIOD MULTIPLIER, \$40.00. TRANSIT CASES P/525-526 PLUG-INS, STEEL (11x 8x8), \$5.00. FIBERGLASS (14x9x9), \$10.00.

TS-510A SIGNAL GENERATOR



TS-510A/USM-44A SIGNAL GENERATOR, 10 to 420 Mhz AM, CW, and pulsed carrier. Internal modulation 400 or 1000 Hz. External mod: 100 Hz to 20 KHz. Output: 0.1 u-volt to 0.5 volt into a 50 ohm load. Large 3 1/2" round meters indicate Percent Modulation and Output Volts-DEM. With built-in 1 Mhz and 5 Mhz crystal calibrator. Similar to Hewlett-Packard 608B. Power required: 115/230 VAC 50-1000 HZ. 13 1/2x16 1/2x21, 80 lbs. Used, repairable with output, \$255.00 \$195. *****
MANUAL FOR TS-510A, partial reproduction \$10.

4 TO 405 Mhz GENERATOR



SG-117/URM-26B SIGNAL GENERATOR, 4.0 to 405.0 Mhz AM-CW-pulse in six bands. Compact unit has 0.1 to 100K u-volt output @ 50 ohms. Modulation 400 or 1000 Hz 0-50%. External pulse-mod requires positive 40 V min., 50-5000 pps; duration 2-40 u-sec and 70 ohm input impedance. Requires 115 VAC 50-1000 HZ. 11x14 1/2x10 1/2, 36 lbs sh wt. Used, repairable, \$175.00. Checked, \$225.00; Manual, partial repro. \$10. ACCESSORIES sold only w/purchase of URM-26B: CN-315 2:1 attenuator, 50 ohms, \$6.00. CN-318 10:1 50A \$7.50. CN-471 10:1 70A \$8. CU-459 impedance matcher, \$7.50. RNC cords, 4 ft, \$1.25; 6", \$1.00

PRINTER MECHANISM

MATRIX PRINTER MECHANISM, precision German-made mechanism used in a U.S. assembled matrix printer which had speeds upto 180 CPS bidirectional, 0-132 or 0-158 columns. Includes single platen, ribbon drive, motors, belts, paper guides, etc. In 25"x25"x2" beige plastic case with cast-aluminum base. Cover lifts for easy access. Add your own control interface electronics and print heads and make it operational. 75 lbs sh wt. #PM/M2, unused, \$125.00

#PM4-2/M2 MECHANISM, same as above except with dual platen; 80 lbs sh. Unused, \$250.00

PRINTER CASE only as above, #MPC/M2, \$25.00

PRINTER STAND for the above or other items. 25" high with 13"x24" top support for bolting on desk top or cabinet. Space behind foot panel for storage. Welded steel construction; chocolate brown. O/A 25"x24"x21, 38 lbs sh. Shipped bus or truck only. #ESD/M2, \$25.00

DATANETICS KEYBOARD as used with matrix printer. 75 keys ASCII encoded. Requires -5, -12 VDC. Assembled keyboard with unassembled, unpainted enclosure. Edge connector, hardware, pinouts incl. \$99.95

MECHANISM PC BOARDS

#217D-242 CARRIAGE-RIBBON MOTOR DRIVER BOARD, provided outputs for red/blk ribbon solenoid, ribbon motors, and carriage as well as voltages for Processor, Controller, and RAM PCB's. Has power transistors 6/TIP142, 3/TIP140, 3/TIP145, 2/TIP2955, 2/IM320T-12, 2N3055, and related transistors and 74-series IC's; +40 +5 +9 VDC req. \$16.95

#217D-243 PAPER FEED #1/ HEAD DRIVER PCB, provides outputs for printhead needles, voltages for carriage/ribbon motor PCB, I/O for optical clock, and output to paper feed #2. Has transistors 13/TIP142, 2/TIP145, 2N3055, 4/MPL455P IC's, and 16/74-series IC's. Requires +40, +9, +5 VDC; 84x84. \$18.95

PRINTER POWER SUPPLY as used with above. Has AC inputs 2/24, 6, 18, 42-14-0-14-45 V from 115 VAC 60 Hz input. DC rectification required for proper voltages. Also has line filter for external fan, relay for cover interlock, and two fuses. 11x6x4, 18 lbs sh wt. #803-101, \$17.95

PRINTER INTERFACE PCB

#217E-238 PROGRAMMABLE INTERFACE, has 8080A microprocessor, 8251 programmable communications interface, 2/8255 programmable peripheral interface, 8224 clock generator, 8228 controller, 3/8205 decoders, MC14411 baud rate generator, 4/2111-4 8254 RM, 4/4804 1024x4 RM, 74123, 74195, and 741804. Also four 8-place DIP switches for baud rates 75-110-134-5-150-200-300-600-1200-1800-2400-3600-4800-7200-9600 and sockets for 2/2708 EPROM. Provisions for additional 2/2708, 4/4804, 8251, and secondary transmit-receive components. Requires -9 and +5 VDC; 74x108. \$85.00

#217D-249 SERIAL INTERFACE, has 8212 8-bit input-output port, 8251, MC14411, 75188, 75189, 74138, 74130, two 7413245, 1.8432 Mhz crystal, five 8-place DIP switches for baud select as on #217E-238 interface. Provision secondary xmit-receive components. -12 -12 +5 +5 VDC; 41x7. \$27.95

COMPUTER FOUNDATION

DISPLAY CIRCUIT BOARD WITH EIGHT 3/8" 7-SEGMENT LED READ-OUTS, EIGHT RED LED's, 15 DARLINGTONS, 8 PNP TRANSISTORS, 3/C4003 SHIFT REGISTERS, PLUS OTHER COMPONENTS, BLOCK DIAGRAM. 10x32, #ECR7700, \$9.95

COMMUNICATIONS CIRCUIT BOARD, CONTAINS MODEM CARD WITH 7/1458 OP AMPS (NO SCHEMATIC). MAIN BOARD HAS THIS 6011 UART, INPUT SHIFT REGISTERS, AND GATES (TEN IC's). ALSO INPUT TRANSFORMERS FOR MODEMS, SELECT WIRING FOR 4- OR 2-LINE INPUT, AND LEVELS 0 DBM, -3 DBM, -6 DBM, OR -9 DBM. MODEM INFO, BLOCK DIAGRAM. #ECR9600, \$12.95

IMPRINTER LOGIC BOARD, THREE 200 VOLT 4 AMP TRIACS DRIVEN BY CONTACTS OF THREE 12 VDC REED RELAYS. ALSO HAS 2/4003 SHIFT REGISTERS, EIGHT DARLINGTONS, EIGHT PNP's, 3/9002, and a 4049 HEX BUFFER/CONVERTER. W/BLOCK DIAGRAM. 10x4, #ECR9060, \$7.95

CONTROL CIRCUIT BOARD WITH 2/4004 4-BIT MICROPROCESSOR, 2/4003 SHIFT REGISTERS, 3/4002 RAM's, and 8/4001 ROM's. ALSO A 4.704 Mhz CRYSTAL, FIVE OTHER IC's FOR CLOCK AND GATING, 12 IC SOCKETS, BLOCK DIAGRAM. 10x5, 3 LBS. #ECR9620, \$13.95

MICROCOMPUTER POWER SUPPLY, USES TWO 3-TERMAL REGULATORS AND A 723 WITH TIP3055 TRANSISTOR. INPUT: 115 VAC 60 Hz; OUTPUT: -25 VDC 180 mA; -5 VDC 800 mA, -15 VDC 1.25 AMPS. WITH SCHEMATIC. SIZE: 38x5x4; SHPG. WT: 10 LBS. #ECRPS-744, \$15.00

CREDIT CARD SCANNER, USES AN OPTICAL SYSTEM TO READ THE RAISED NUMBERS OF A CREDIT CARD INTO IN PHOTO ARRAY. HAS SMALL AC MOTOR TO DRIVE CARD THROUGH THE READER. ALSO LIGHT AND PLASTIC OPTICS, TWO ROCKWELL IC's 10561 and 15120. WITH DIAGRAM OF CONNECTOR WIRING. 5x5x4, #ECR2020, \$7.95

20-KEY KEYBOARD, 5/8" SQUARE BUSINESS KEYS WITH CHARACTERS: 0 THRU 9, CLR, RST, CRED, CASH, IMP, SEND, RET, CODE, \$, and ACCT. TWO BUSES: ONE FOR NUMBERS; THE OTHER FOR INSTRUCTIONS. SIZE: 4x4, WT: 2 LBS. #ECR4835, \$3.95

ECR COMPONENT PACKAGE DEAL THE ABOVE SEVEN ITEMS WITH AN ECR-PREFIX WERE ORIGINALLY COMPONENTS OF AN ELECTRONIC CARD READER SYSTEM. THEY MAY BE PURCHASED INDIVIDUALLY AS MARKED OR TOGETHER AS A PACKAGE FOR \$45.00

POWER SUPPLY BOARD f/printer: 41 IC's & sockets (mostly 74-series); 82 power transistors (mostly 10 amp TIP-140-142-145); 3/VTA200-3 200 V 25 A bridges; 5/IN3590 100 V 12 A diodes; and related. Also axial capacitors 11/6800 ur 16 V; 5/1500 ur 63 V; 4/220 ur 25 V; 1000 ur 25 V; plus 56/6.8 ur 35 V and 10/4.7 ur 35 V tantalums. 20x14; 5 lb. #803-195 \$22.

P8085 PROCESSOR PCB

#217D-244 CONTROLLER CPU, directed electro-mechanical functions of printer. Has P8085 MPU with 5.7143 Mhz crystal, 2/8255A programmable peripheral interface, 8253 programmable interval timer, 8212 8-bit I/O, 4/8205 one of 8 decoder, nine 3541 FIFO shift register, 4/2111-1 RAM, 7400, 3/741300, 7413125, 7413161. Sockets for 6/2708. -12, -12, +5, -5 VDC req. \$100.00

#217-246 PROCESSOR CPU, has P8085 w/5.185 Mhz crystal, 8255A, 8212, 8253, 3/8205, 4/2114 RAM, 741300, 741302, 741332, 741393, and 7413244. Also sockets for 4/2708 EPROM. Requires +5 VDC (plus +12 and -5 VDC for 2708's). Originally used with Danatronics keyboard; 10x7. \$75.00

COMPUTER TERMINAL

795 VIDEO DISPLAY, CONVERTIBLE INTO A GRAPHICS TERMINAL AS DESCRIBED IN SEPT. 176 ISSUE OF 73 MAGAZINE. CONSISTS OF 12" DIAGONAL MAGNETICALLY DEFLECTED CRT, INTERNAL DC-TO-DC CONVERTER, 10 KV SUPPLY, HORIZONTAL AND VERTICAL DEFLECTION AMPS, AND INTERNAL MUFFIN FAN. WITH CONTROLS FOR INTENSITY, HORIZ. AND VERT. GAIN/POSITION. REQUIRES 115 VAC 60 HZ. POWER CONNECTOR NOT AVAILABLE. SIZE: 15x17x21; SH WT: 100 LBS., 75 LBS. NET. USED, \$59.50

CONTROL ASSEMBLIES ON 9x4 HEATSINK. USED, EXCELLENT YIELD ON SEMICONDUCTORS. SHPG. WT. 4 LBS EA. SIMILAR TO PICTURE ORDER BY NUMBER

TRANSISTOR CONTROL ASSEMBLY WITH DIODES.

8/TO-3 60V (SIMILAR TO 2N3055) AND 8/TO-66 (SIMILAR TO 2N3054) 60V TRANSISTORS, 8/0-4 OHM 5W AND 8/30HM 5W RESISTORS, 8/00-4 DIODES WITH INSULATED MOUNTING HARDWARE. \$729 \$5.75

TRANSISTOR CONTROL ASSEMBLY, CONTAINS 8/TO-3 AND 8/TO-66 AND EMITTER RESISTORS AS ABOVE. SMALL DIODES AND RESISTORS. #0425 \$5.00

CONTROL CLUTCH ASSEMBLY AND HEATSINK 9x4 IN. 8/100V TO-3 AND 2/60V TO-66 TRANSISTORS, FIVE 0.4 OHM 10 W RESISTORS, MORE. #095-8139 \$4.00

SOLENOID DRIVER ASSEMBLY WITH 6/70MFD 300V CAPACITORS, 6/ 60 OHM 3/10WATT DALE RESISTORS TRANSISTORS AND DIODES. 3Lb #34004587 \$3.50

TALLY LOGIC; 26/2N3643, 2N6027, 3/324, TWO 16 PIN SOCKETS, 500MFD 75V, 2/200MFD 25V 4MINI POTS, RESISTORS, CAPACITORS, DIODES SH WT 2 LBS #691746- \$3.50

REED RELAY

REED RELAY BOARDS LISTED BELOW CONTAIN 12VDC REED RELAYS AND ASSOCIATED COMPONENTS. ORDER BY BOARD NUMBER. SH WT. 3 LBS.

#5336 1/DPST, 4/SPST, 2/4SPST, mercury wetted relay SPDT, 25 diodes. \$3.95

#5346 12/SPST, DPST, 2/DPST mercury wetted. 5 transistors, 51 diodes, capacitors 3/25 ur 50 V and 1/47 ur 35 V. \$5.95

#5361 3/DPST, 4/SPST, mercury wetted SPDT, 6 transistors, 24 diodes, and nine capacitors and resistors. \$3.95

#140380 MAGNETIC REED SWITCHES with bias magnets on board, \$4.95

#315D339 Eight Clare HGM 7004 mercury wetted relays on board, \$3.95

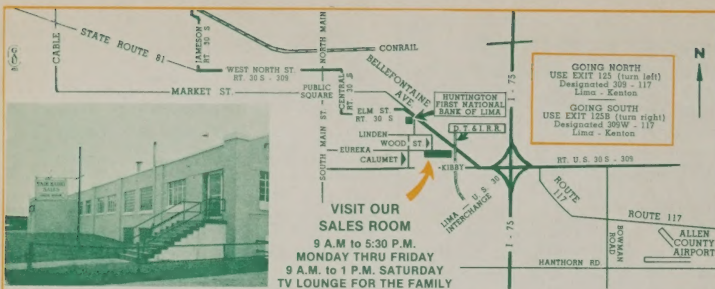
REGULATOR AND PREREGULATOR CARDS, w/current limit and OVP. Not complete regulator. Has transistors, diodes, zeners, resistors, capacitors. Needs about -90 VDC f/preregulator. #RB4561-4, for 4 to 5 V. regulator, \$2.50 #RB6426-32, for 32 to 36 V. regulator, \$2.00

READ & SWITCH CORE CURRENT SOURCE, two 8 V reference diodes, 3x2x1 seal heatsink w/two transistors, 6-section inductor, 25 W 75 ohm rheostat, Dale 25 W 31 ohm 1% precision power resistor; 4 lbs sh. #315-05, \$2.00

TALLY RECEIVER, 15/741's (two in socket), one 723 in socket, four transistors, six tripoint resistors, capacitors, etc. #601740, \$3.95

M2E DESIGN 2400 MATRIX PRINTER, 180 ops bidirectional; 0-132 or 0-158 columns, 96 character set plus elongated print feature. Units are sold "AS-IS, repairs required/no documentation." 175 lbs sh. Used, as-is, \$400.00; As-is, less printhead, \$300.00

PRINTER EXERCISER for the above printer; selectable baud rates from 50 to 9600. Uses 8080A, 8255A, 8251, 8224, 8228, & 4/2708's. In transit case; 8 lbs sh. \$100.00



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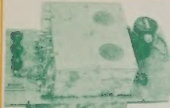


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4CX300A POWER AMP



DUAL RF POWER AMPLIFIER, each section has 4CX300A tube in SK710 socket; tubes rated 300 watts dissipation upto 500 Mhz. One side tuned for 166 Mhz, the other 156 Mhz. 5647 diode detects rela-

tive power output. Also features RNC connections for input-output, silver-plated strip line inductance, and 27 VDC blower. 13x7x5, 9 lbs sh. #PA-MRC, used \$145; less tubes \$35

RF AMP & DRIVER for 156 Mhz; has four removable silver-plated strip line cavities each 3.4" lg X 0.6" dia mounted on 11.5x1.6x1.1" silver-plated chassis. Also contains 3/2.5-8 pf differential capacitor, 2.5-8 pf capacitor, and tubes 6360, 3/6AK5, and 6AS6. Requires 27 VDC, 200 VDC, and 350 VDC. First stage is mixer 149.67 + 6 Mhz; schematic included. 5 lbs. #V17-MRC used \$17.

#V12-MRC, same as above except has AGC and 166 Mhz frequency; w/schematic. Used \$16.95

SIGNAL GENERATORS

AN/URM-25D SIGNAL GENERATOR

older version of URM-25F (pg 31), 10 Khz to 50 Mhz AM in nine bands. Output: 0-100K volts into 50 ohms. Modulation 0-50%, 400 or 1000 Hz internal. 1 Mhz crystal calibrator. Requires 115 VAC 50-1000 Hz. Less front cover: 11x14x10 1/2, 44 lbs sh wt. Used, repairable, \$115. Checked, \$175.00

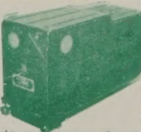


ACCESSORIES, available w/purchase of URM-25: MANUAL, \$10. SR-35 antenna simulator, \$5.00 MX-1487 impedance adapter, \$6.00 CN-223 5:1 attenuator \$5. CN-224 10:1, \$6.

3 TO 405 MHZ

AN/URM-26 SIGNAL GENERATOR, older version of URM-26B (pg 33)

and similar in appearance to URM-25 above; covers 3 to 405 Mhz AM-CW in six bands. Output: 0.1-50K w into 50 ohms. 0-50% internal modulation, 400 or 1000 Hz. Requires 115 VAC 50-1000 Hz. 11x15x10 1/2, 42 lbs sh wt. Used, repairable, \$120.00; Checked, \$180.00 MANUAL, partial reproduction, \$10.00 CN-179/URM-26 attenuator, \$7.50 with set. MX-1289/URM-26 adapter, \$8.00 w/set.

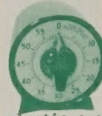


ARC-45 UHF TRANSCEIVER

RT-295/ARC-45 UHF TRANSCEIVER designed for light aircraft and employs 12 preset channels in the 225-399.9 AM Mhz range; 1 watt minimum transmitter output. Receiver IF's: 23.49-24.39 Mhz (1st), 2.98 Mhz (2nd). Audio out 50 mw into 150 ohms. Uses 2/5893 tubes in PA and 5675 as doubler; also 29 other miniature and sub-mini tubes. Requires 150 VDC 115 ma, 300 VDC 130 ma, and 27 VDC 1.7 amps. 5x8x14 1/2, 19 lbs sh. Used \$49.50; Schematic, \$5.

SE-329/ARC-45 CHANNEL SELECTOR BOX for 12 preset channels; has volume. Used \$10 w/set

\$0 SEC TIMER

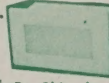


RHODES 60 SECOND TIMER, mechanical type with bell that signals when time elapsed. Set time from 2-60 sec. 3" dia, plastic case; 2 lb. #56414 NEW \$3.

RV LIGHT FIXTURE

OVERHEAD LIGHT FIXTURE

for RV, van or trailer. Automotive type double contact lamp socket for 6-12-24 VDC lamp (25 W max); also 5x2x2 1/2 diffuser lens. Outer 8x5; fits in 7x3 1/2x3 space. 4 lbs. #174-OL NEW \$4



DC MOTOR

Operates 10-15 VDC 100 ms 2375-2425 RPM with governor. Shaft 5/16"x1/16" dia; o/a 2-7/8"x1-1/8" dia. #AST-CK26 NEW \$7.95

225-400 MHZ RECEIVER

R-482/URR-35 RECEIVER, 225 to 400 Mhz AM and MCW in one continuous-tunable band. Dual conversion: 18.6 Mhz 1st IF, 1.775 Mhz 2nd. Provisions for panadapter with 600 Khz bandwidth. Antenna input impedance: 50 ohms. Audio output: 600 mw into 600 ohms. Power required: 115 VAC 60 Hz. 8x17x19 1/2, 65 lbs sh wt. Used-repairable, \$90. Checked, \$145. MANUAL, partial repro, \$10.00



TELEGRAPH KEYS



J-45 LEG IRON w/J-37 KEY with adjustable contacts. Includes 7 1/2" CD-201 cord w/FL-55 plug. 4 lbs sh. Used, \$12.00 LEG IRON only, \$4.75



CANADIAN #48 KEY (left), ball-style button; toggle switch for Send-receive (10-55 Mhz); 500 Khz to 25 Mhz (56 Mhz up). Spectrum analyzer 160 Mhz center freq 12.5 Mhz. Sensitivity: as low as -.83 dbm (10-150 Mhz); -40 dbm (2.0 Khz up). RF attenuation 100 db; uncalibrated internal 10 Mhz-12.4 Ghz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17x19x26; 180 lbs sh, 145 lbs net. Used-repairable, \$495.00; MANUAL, partial repro, \$15. Some ACCESSORIES available-write.

10-44,880 MHZ ANALYZER



TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 Mhz to 44.88 Ghz in eight bands; 5" (SADP) CRT display. Resolution 3 db points: 20 Khz all frequencies. Dispersion: 500 Khz-5 Mhz adjustable (10-55 Mhz); 500 Khz to 25 Mhz (56 Mhz up). Spectrum analyzer 160 Mhz center freq 12.5 Mhz. Sensitivity: as low as -.83 dbm (10-150 Mhz); -40 dbm (2.0 Khz up). RF attenuation 100 db; uncalibrated internal 10 Mhz-12.4 Ghz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17x19x26; 180 lbs sh, 145 lbs net. Used-repairable, \$495.00; MANUAL, partial repro, \$15. Some ACCESSORIES available-write.

PRD-1 DIRECTION FINDER

R-395/PRD-1 RADIO DIRECTION FINDER

100 Khz to 30 Mhz AM-CW-ICW in seven bands; EM over 12.5-30 Mhz. 34 Khz bandwidth. 100 Khz crystal calibrator for bands 1-2-3 (100-1200 Khz), 1300 Khz bands 4-5 (1.14-5.8 Mhz), and 4000 Khz bands 6-7 (5.5-30 Mhz). Has two tuned RF amplifiers using two 6AK5's. Also 7/1U4, 1R5, 2/1U5, 6C4, 3Q4, and 3A5. Designed to be used with diamond shaped AS-536 and AT-301 antenna which mounts on receiver's top. Requires 1.5, 6.3, -6, and 90 VDC. 18x13x13 1/2, 64 lbs net, 75 lbs sh wt. Used, repairable, \$105.00 MANUAL, partial repro, \$12. Schematic only \$3 AS-536 & AT-301 LOOP ANTENNA, \$30 w/set.



DY-79/PRD-1 DYNAMOTOR POWER-SUPPLY, fits and plugs into bottom of R-395 and provides all the voltages for the receiver from 24 VDC 7 amp input 10x14x17, 38 lbs sh. Used, \$35 Power input connector \$3 w/set

MT-1283/PRD-1 Jeep mount; 75 lbs, \$22 w/set. MX-1454/PRD-1 SURVEYOR'S COMPASS, 4" dia in leather case; Kuefel & Essel. Used \$25 w/set. *****

AN/PRD-1 DIRECTION FINDER SYSTEM in excellent little-used or unused condition. Includes: R-395, DY-79, AS-536, AT-301, MT-870 receiver tripod, battery cable, partial repro of manual in wood transit cases CY-949, CY-950, and CY-954. 275 lbs sh wt. Excellent, \$245.00

PRT-4 XMITTER



AN/PRT-4 MINIATURE TRANSMITTER, designed to operate on two preset channels between 47 and 57 Mhz. Output 450 mw (Ch 1), 50-250 mw (Ch 2); also 150 Hz tone. Has built-in microphone; clips onto belt or pocket. Requires 6 VDC originally supplied by RA-399 battery (not available). Units sold "as-is" less antenna, crystals, battery box. 2x4x2 1/2, 2 lbs. \$16.95